

# DOCUMENT RESUME

ED 084 883

EM 011 707

AUTHOR Swann, James H.  
TITLE Interpretation and Training Uses of Computer Printout Data of Naval Occupational Task Analysis Program (NOTAP).  
INSTITUTION Naval Personnel Research and Development Lab., Washington, D.C.  
REPORT NO WTR-73-34  
PUB DATE Jun 73  
NOTE 123p.  
  
EDRS PRICE MF-\$0.65 HC-\$6.58  
DESCRIPTORS Data Bases; Educational Programs; \*Job Training; Military Personnel; \*Military Training; \*Occupational Information; \*Task Analysis; Technical Reports  
IDENTIFIERS Aerographers Mate (AG); \*Naval Occupational Task Analysis Program; NOTAP

## ABSTRACT

This study attempted to demonstrate the potential value of the Naval Occupational Task Analysis Program (NOTAP) for its use in the design and development of training programs, courses, and curricula. The emphasis was focused on its application to the training programs for the Aerographer's Mate (AG) rating. Selected occupational data printouts were retrieved from NOTAP and interpreted in line with the framework for an AG program. It was recommended that the procedure of the study be used by the Chief of Naval Training as a basis for developing advanced programs. The examples of NOTAP computer printouts, format for task analysis and training program design were listed in the appendix. (CH)

FILMED FROM BEST AVAILABLE COPY



# NAVAL PERSONNEL RESEARCH AND DEVELOPMENT LABORATORY

WTR 73-34

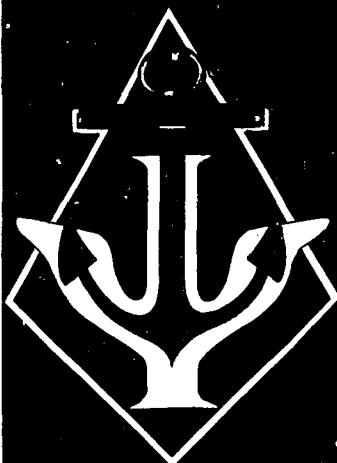
JUNE 1973

INTERPRETATION AND TRAINING USES OF COMPUTER PRINTOUT DATA  
OF  
NAVAL OCCUPATIONAL TASK ANALYSIS PROGRAM  
(NOTAP)

James H. Swann

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.

**WASHINGTON NAVY YARD**  
**WASHINGTON, D. C. 20390**



ED 087303

WTR 73-34

AD

JUNE 1973

INTERPRETATION AND TRAINING USES OF COMPUTER PRINTOUT DATA  
OF  
NAVAL OCCUPATIONAL TASK ANALYSIS PROGRAM  
(NOTAP)

Work Unit No.  
(TDP P43.07X.A1.31W)

James H. Swann

U.S. DEPARTMENT OF HEALTH,  
EDUCATION & WELFARE  
NATIONAL INSTITUTE OF  
EDUCATION

THIS DOCUMENT HAS BEEN REPRO-  
DUCED EXACTLY AS RECEIVED FROM  
THE PERSON OR ORGANIZATION ORIGIN-  
ATING IT. POINTS OF VIEW OR OPINIONS  
STATED DO NOT NECESSARILY REPRESENT  
OFFICIAL NATIONAL INSTITUTE OF  
EDUCATION POSITION OR POLICY.

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.

NAVAL PERSONNEL RESEARCH AND DEVELOPMENT LABORATORY  
WASHINGTON, D. C. 20374

A LABORATORY OF THE BUREAU OF NAVAL PERSONNEL

## FOREWORD

This is one of a series of investigations accomplished under Advanced Development Objective 43-07X, which identifies the operational need to develop a Navy occupational data bank. The need to use the data bank for such purposes as outlining career development patterns is emphasized in the ADO. The current study directly related to this need since it involves the use of computerized occupational data in designing training programs and curricula, using the Aerographer's Mate (AG) rating as an example.

## SUBMITTED BY

A. J. Rose

Head, Occupational Systems Research Branch

## APPROVED BY

M. D. Callahan

Acting Director, Personnel Systems Research Department

A. L. Blanks  
Captain, U. S. Navy  
Commanding Officer

E. M. Ramras  
Technical Director

## SUMMARY

### Problem

There is a need to change the focus of Navy enlisted training in order to meet the operational and technical requirements for improved performance of personnel in assigned jobs. More specifically, there is a need that all Navy training be totally job-relevant. This points up the requirement for a structuring of all training programs and basing all curricula and courses upon a thorough and meticulous analysis of duties and tasks to be performed by the trainees in order to meet that need.

### Objective

This problem and advanced technology have imposed greater needs today than ever before for improved and rapid identification and dissemination of naval occupational information. The Naval Occupational Task Analysis Program (NOTAP) includes a job task analysis procedure in which the duties and tasks of all Navy billets are being identified and computer data collected. These data: (1) identify jobs, duties, and tasks of each rating, and (2) provide a basis for the selection of jobs and tasks for which training should be conducted. The objective of this study is to determine the extent to which NOTAP computer data can be used most effectively in the design and development of training programs and curricula.

### Background

The Navy enlisted occupational data bank is a proposed management information system which is currently undergoing feasibility testing as part of an advanced development program. The system utilizes a computer for processing and storing occupational information and is programmed so that information can be retrieved in a variety of formats to serve a variety of purposes in Navy personnel management and training functions. Basic to the operation of an occupational data bank is a comprehensive task analysis program which features the gathering of occupational data by means of task inventory booklets (questionnaires) sent to statistically valid samples of enlisted men in various ratings throughout the Navy. The Navy's interest in occupational analysis was reinforced by the recommendation of a Task Force on Navy/Marine Corps personnel retention to conduct occupational analysis research -- a recommendation the Secretary of the Navy subsequently approved. In addition, the Chief of Naval Training has declared that all naval training be based on the tasks to be performed by the trainee. Data have been gathered on the Aerographer's Mate (AG) rating and results published in a report of April 1972. The contents of the report were general in nature, however, rather than specifically related to training. NOTAP computer printouts for the AG rating appropriate for training purposes were reviewed in the conduct of this investigation.

### Approach

Identified selected occupational data printouts retrieved from the occupational data bank in terms of their potential value for developing training programs and curricula for the Aerographer's Mate (AG) rating.

Interpreted selected data in order to provide a meaningful relationship to the design and development of training programs, curricula, and courses.

Designed the framework for an AG rating program and format of one element (curriculum) of the program.

### Findings

Occupational survey data are useful in the design and development of training programs related to the AG rating. (Page 3)

### Conclusions

1. Standard procedures for translating occupational survey data into practical training instruments are required. (Page 9)

### Recommendation

1. Procedures for interpretation and use of NOTAP data (Appendix A) be used by the Chief of Naval Training as a basis for standardizing procedures for the re-design and development of NOTAP based training programs, courses, and curricula. (Page 11)

## REPORT USE AND EVALUATION

Feedback from consumers concerning the utilization of reports is a vital element in improving products so that they better respond to specific needs. To assist the Chief of Naval Personnel in future planning, it is requested that the use and evaluation form on the reverse of this page be completed and returned. The page is preaddressed and franked; fold in thirds, seal with tape, and mail.

---

Department of the Navy

POSTAGE AND FEES PAID  
DEPARTMENT OF THE NAVY  
DoD-316



Official Business

Commanding Officer  
Naval Personnel Research and Development  
Laboratory  
Building 200  
Washington Navy Yard  
Washington, D. C. 20374

---

**Report Title & No.:** INTERPRETATION AND TRAINING USES OF COMPUTER PRINTOUT  
DATA OF NAVAL OCCUPATIONAL TASK ANALYSIS PROGRAM (NOTAP)  
WTR 73-

**1. EVALUATION OF REPORT.** Please check appropriate column.

| FACTORS                     | RATING |     |      | COMMENTS |
|-----------------------------|--------|-----|------|----------|
|                             | LOW    | AVE | HIGH |          |
| USEFULNESS OF DATA          |        |     |      |          |
| TIMELINESS                  |        |     |      |          |
| COMPLETENESS                |        |     |      |          |
| TECHNICAL ACCURACY          |        |     |      |          |
| VALIDITY OF RECOMMENDATIONS |        |     |      |          |
| SOUNDNESS OF APPROACH       |        |     |      |          |
| PRESENTATION AND STYLE      |        |     |      |          |
| OTHER (Please Explain)      |        |     |      |          |

**2. USE OF REPORT.** Please fill in answers as appropriate. Use continuation pages as necessary.

A. WHAT ARE YOUR MAIN USES FOR THE MATERIAL CONTAINED IN THE REPORT?

B. ARE THERE ANY SPECIFICS OF THE REPORT THAT YOU FIND ESPECIALLY BENEFICIAL (OR THE REVERSE) TO YOUR AREA OF RESPONSIBILITY? IF SO, PLEASE AMPLIFY

C. WHAT CHANGES WOULD YOU RECOMMEND IN REPORT FORMAT TO MAKE IT MORE USEFUL?

D. WHAT TYPES OF RESEARCH WOULD BE MOST USEFUL TO YOU FOR THE CHIEF OF NAVAL PERSONNEL TO CONDUCT?

E. DO YOU WISH TO REMAIN ON THE DISTRIBUTION LIST? YES \_\_\_\_\_ NO \_\_\_\_\_

F. PLEASE MAKE ANY GENERAL COMMENTS YOU FEEL WOULD BE HELPFUL IN PLANNING THE RESEARCH PROGRAM.

NAME: \_\_\_\_\_ CODE: \_\_\_\_\_

ORGANIZATION: \_\_\_\_\_

ADDRESS: \_\_\_\_\_



## TABLE OF CONTENTS

|                                                                                                                                         | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------|------|
| Foreword . . . . .                                                                                                                      | ii   |
| Summary . . . . .                                                                                                                       | iii  |
| Report Use and Evaluation Form . . . . .                                                                                                | --   |
| I. INTRODUCTION                                                                                                                         |      |
| A. Problem . . . . .                                                                                                                    | 1    |
| B. Objective . . . . .                                                                                                                  | 1    |
| C. Background . . . . .                                                                                                                 | 1    |
| II. APPROACH                                                                                                                            |      |
| A. Methodology . . . . .                                                                                                                | 3    |
| B. Procedures . . . . .                                                                                                                 | 3    |
| III. DISCUSSION                                                                                                                         |      |
| A. General . . . . .                                                                                                                    | 7    |
| B. Results . . . . .                                                                                                                    | 7    |
| IV. FINDINGS . . . . .                                                                                                                  | 9    |
| V. CONCLUSIONS . . . . .                                                                                                                | 11   |
| VI. RECOMMENDATIONS . . . . .                                                                                                           | 13   |
| Bibliography . . . . .                                                                                                                  | 15   |
| Appendix A - Interpretation and Use of NOTAP Computer<br>Printouts in the Design and Development<br>of Navy Training Programs . . . . . | 17   |
| Attachment A - Sample Pages of NOTAP Computer Printouts<br>for Use in Design and Development of<br>Navy Training Programs . . . . .     | A    |
| Attachment B - Example of Training Program Design . . . . .                                                                             | B    |
| Attachment C - Example of Format for Task Analysis<br>(NOTAP) Based Curriculum . . . . .                                                | C    |
| Distribution List . . . . .                                                                                                             | --   |

## I. INTRODUCTION

### A. Problem

There is a need to change the focus of Navy enlisted training in order to meet the operational and technical requirement for improved performance of personnel in assigned jobs. The problem of this study was to interpret the computer printouts of the Naval Occupational Task Analysis Program (NOTAP) in terms of their use in the design and development of training programs, courses, and curricula. Thus, focus training on job performance.

### B. Objective

Advanced technology has imposed greater needs for improved and rapid identification of occupational information about Navy jobs. There is under development in the Navy, a management system designated as the Naval Occupational Task Analysis Program (NOTAP). This program includes a job task analysis program in which the duties and tasks of all Navy billets are being identified, and computer data collected with respect to such factors as the percent of personnel performing duties and tasks and the average percent of time spent by personnel in performing duties and tasks. These data are being used as a basis for the development of job-relevant training courses and curricula. That is, the learning experience provided for students will be directly and explicitly related to the duties and tasks they will be required to perform in their Navy assignments. The objective of this study was to make more effective the use of NOTAP computer printout data - using the AG rating as an example - in the re-design and development of training programs, courses, and curricula.

### C. Background

This report on the interpretation and training use of computer printouts of the Naval Occupational Task Analysis Program (NOTAP) as applied to the AG rating, represents a sub-project of NOTAP. The Navy's interest in an occupational analysis system was emphasized by a task force on Navy/Marine Corps personnel retention. This task force recommended occupational analysis research and the Secretary of the Navy approved the recommendation:<sup>1</sup> Exploratory Development research in the area began in 1967 and was extended to advanced development in 1969.

Under advanced development, research has emphasized the application of techniques previously developed by other branches of the U. S. Armed

---

<sup>1</sup>Secretary of the Navy's Task Force on Navy/Marine Corps Personnel Retention. Report of Vol. 1, Department of the Navy, Washington, D.C. January 1966.

Forces and the Canadian Armed Forces. Current research is focused on the 18 Group IX aviation ratings including the Aerographer's Mate (AG).

Data were gathered on this rating and some of the results were presented in a report of April 1970.<sup>2</sup> However, the content of this report was general in nature rather than specifically related to training. All NOTAP computer printouts for the AG rating, appropriate for use for training purposes are discussed in the current report.

---

<sup>2</sup>Naval Personnel Research and Development Laboratory, A Preliminary Report on the Analysis of the Aerographer's Mate (AG) Occupational Data, Washington, D. C.: April 1972.

## II. APPROACH

### A. Methodology

1. Operational Requirement. This requirement has been stated by the Chief of Naval Training in a policy statement to the effect that "all training programs shall be structured, and all curricula and courses based upon a thorough and meticulous analysis of the duties of tasks to be performed by the trainees, to the end that all Navy training is totally job-relevant."<sup>3</sup>

The operational requirement is also inherent in the current need to conduct Navy training (a) with maximum effectiveness so that course objectives may be met and (b) so that it will be efficient to the degree that objectives are attained with minimum time and cost. The above two requirements dictate that available information such as NOTAP job task analysis data be used in the most effective manner so that these data will contribute to these requirements. This report shows how this may be accomplished.

### 2. Approach

a. Hypothesis. Based on the operational requirements, it was hypothesized that an interpretation of the Naval Occupational Task Analysis Program (NOTAP) computer printouts in terms of training use would make them more effective in the development of Navy training programs, courses of study, and curricula.

b. Approach. The descriptive method of research was employed which included (1) the design of a framework of a training program and the format of an element of the program (training curriculum), and (2) a description of how to interpret and use the NOTAP computer printout data in the design of a training program and in the construction of a curriculum. The AG rating was used as an example. The results of this approach are presented in Appendix A with three attachments, A, B, and C.

### B. Procedure

1. General. The approach required the following procedures:

a. The selection of NOTAP computer printouts containing data that are applicable to training program design and training curricula construction (see Appendix A, Attachment A for sample pages of selected printouts).

---

<sup>3</sup>Chief of Naval Training, CNTINST 1540.1, Code 0172. Pensacola, Fla. 26 May 1972.

b. An interpretation of the structure and content of data in each kind of computer printout and how these data may be used in the design and construction of a curriculum. (See Appendix A for this interpretation.)

c. Construction of an example of a training program design (see Appendix A, Attachment B) in order to show how the NOTAP computer printouts discussed in Attachment A may be used as a basis for this design.

d. Construction of an example of a training curriculum for a course (see Appendix A, Attachment C) in order to show how the NOTAP computer printouts discussed in Attachment A may be used in the construction of a curriculum. A curriculum that shows the specific jobs and tasks, of the rating, identified by NOTAP printouts, and to show how training conducted in accordance with the curriculum will meet the policy requirement of the Chief of Naval Training which was previously stated in the operational requirement. This policy states that "all training programs shall be structured and all curricula and courses based upon a thorough and meticulous analysis of the duties and tasks to be performed by the trainee, to the end that all Navy training is totally job-relevant."

2. Appendix A, Interpretation and Use of NOTAP Computer Printouts in the Design and Development of Navy Training Programs. This appendix was developed by a comparison of the types of data found in the computer printouts in Attachment A with the requirements of the example of a training program design (Attachment B) and with the example of a format of curriculum for a course (Attachment C). The requirements indicated a need to show how the jobs, duties and tasks identified and selected by NOTAP computer printouts would be used specifically as a basis for the design and development of a training program, course, and curriculum. This need led to the requirement that Appendix A present (1) an interpretation of the structure and content of NOTAP computer printouts and (2) how valid jobs and tasks may be selected for training purposes, from the total jobs and tasks of the rating found in NOTAP printouts.

3. Attachment A, (to Appendix A), Sample Pages of NOTAP Computer Printouts for Use in Design and Development of Navy Training Programs, (Aerographer's Mate, AG). The NOTAP computer printouts - represented by samples of pages from the printouts - found in Attachment A were selected as being useful for training purposes; because these printouts provide specific data for use by training designers in making decisions with respect to four crucial factors:

a. The job and tasks, of the total jobs and tasks of a rating, identified by NOTAP printouts which should be selected for formal and on-the-job training.

b. The personal and technical background, and current assignments of personnel of the rating.

c. Worker characteristics of jobs. That is, the physical, mental, and leadership requirements of jobs of the rating.

d. Operational equipment for which training will be conducted.

4. Attachment B (to Appendix A), Example of Training Program Design (Aerographer's Mate, AG). This attachment was based on the concept that the general framework of a training program should be designed as a basis for the design and development of its element (courses and curricula). (See definition in Appendix A, item 2s Training Program Design.)

This attachment is used in this report to show how NOTAP computer printouts are used in the design of a training program. As examples, the scope of the training program is conditioned by the jobs identified by the NOTAP "Diagram Task Similarity Matrix," and the content (number of courses) of the program is conditioned by the complexity of tasks, and the kind and number of tasks applicable to each grade.

5. Attachment C (to Appendix A), Example of the format for "Task Analysis (NOTAP) Based Curriculum for Course II, Aerographer's Mate - Advanced Technical". The procedure used in the development of this attachment consist of the design of the format of a curriculum in which the following aspects of the NOTAP computer printouts of Attachment A of Appendix A could be shown and used:

a. Jobs identified by the "Diagram of Task Similarity Matrix". (See II. SCOPE in Attachment C to Appendix A.)

b. The break-down of selected NOTAP duty tasks into task elements. (See III. DUTY TASK ANALYSIS in Attachment C to Appendix A.)

c. The use of jobs, duty tasks, and elements of duty tasks to write learning objectives which specifically relate what students do in the learning situation, to jobs and duty tasks which students will be required to perform in their Navy operational assignments. (See IV. COURSE CONTENT in Attachment C to Appendix A.)

A crucial training element of a learning objective is the "Training Task". This element specifically states what students must do and know in the learning situation in order to perform each element of the duty task, and in turn the job to which tasks are related. Included in the learning objective is the performance on specific operational equipment selected from the NOTAP "Equipment VARSUM". (See Attachment Ahl.)

### III. DISCUSSION

#### A. General

The interpretation of NOTAP computer printouts in Appendix A in terms of their use in the design and development of training programs provide a standard procedure for translating NOTAP task analysis data into practical training instruments such as training programs, courses of study, curricula and lesson plans.

Attachments B and C to Appendix A are not a complete training program or curriculum. Rather, they show the framework within which NOTAP jobs and duty tasks may be used as a basis for the design of a training program and curriculum which will insure job oriented training and thus job qualified students based on NOTAP data.

#### B. Results

The results of this investigation are presented in Appendix A as proposed procedures to assist personnel of Navy training activities in the re-design and development of training programs and curriculum in accordance with the policy of the Chief of Naval Training as stated in CNTINST 1540.1 of 26 May 1972.

#### IV. FINDINGS

Based on the operational requirement of the Chief of Naval Training that all naval training be based upon tasks to be performed by the trainee to the end that the training is job-relevant, and in addition, the requirement that NOTAP computer printout data be effectively and efficiently used in order to meet the operational requirement, it was found that:

1. the design and development of training programs, courses, and curricula as shown in Attachments B and C to Appendix A will insure that Navy training will be based upon jobs and tasks identified and selected by NOTAP data and therefore, will be job-relevant (page 3).



## V. CONCLUSIONS

As evidenced by the findings and results of the investigation, it was concluded that:

1. the interpretation of NOTAP computer printouts in Attachment A to Appendix A verified the hypothesis that an interpretation in terms of their uses for training purposes will make NOTAP more effective by:

a. providing a selected list of printouts that are most appropriate in the design and development of training programs, courses of study, and curricula. (Page 9.)

b. clarifying the meaning of printout data and how these data may be used in the design and development of training programs. (Page 3.)

c. providing a framework of a training program (Attachment B to Appendix A) and the format for a training curriculum (Attachment C to Appendix A). These two attachments will illustrate to training designers at Navy training activities, a way to insure that training programs, courses, and curricula will be specifically based upon jobs and duty tasks identified by the NOTAP/CODAP System. (Page 9.)

## VI. RECOMMENDATIONS

Based on the findings and conclusions, it is recommended that:

1. Appendix A with attachments be tested and refined for operational acceptance by cognizant personnel of the Chief of Naval Training and the Chief of Naval Technical Training. (Page 11.)
2. After operational acceptance and refinement, Appendix A with attachments be used as a basis for standardizing the procedures for the re-design and development of NOTAP based training programs, courses, and curricula. (Page 11.)

## BIBLIOGRAPHY

1. Canadian Forces, Manual on Job Description and Job Description Writing.
2. Chief of Naval Training, CNTINST 1540.1, Code 0172, Pensacola, Fla. 26 May 1972.
3. Chief of Naval Technical Training, CNTECHTRAINST 1540.2 (series), Code 342A, Naval Air Station Memphis (75), Millington, Tenn.: 13 September 1972.
4. Chief of Naval Technical Training, CNTECHTRAINST 1540.31 (series), Code 342, Naval Air Station Memphis (75), Millington, Tenn.: 30 June 1972.
5. CODAP MANUAL (COMPREHENSIVE OCCUPATIONAL DATA ANALYSIS PROGRAM) for an IBM 360 computer.
6. Cullison, M. D., Occupational Analysis: Report on Data Collection of Navy-wide test of Group IX Ratings, Naval Personnel Research and Development Laboratory, Washington, D.C. (WTR 72-35), June 1972.
7. Cullison, M. D., Occupational Analysis: Report of Analysis of Data from Field Tests of Aerographer's Mate Rating, Naval Personnel Research and Development Laboratory, Washington, D. C. (WTR 73-1), July 1972.
8. Naval Personnel Research and Development Laboratory, Preliminary Report on the Analysis of the Aerographer's Mate AG Occupational Data, Washington, D. C.: April 1972.
9. Naval Personnel Research and Development Laboratory, Task Analysis Inventory, (AG Rating) Washington, D.C.: 1970.
10. Rundquist, Edward A., Job Training Course Design and Improvement, Naval Personnel and Training Research Laboratory, San Diego, Calif. 92152: (Research Report SRR 71-4) September 1970.
11. Secretary of the Navy's Task Force on Navy/Marine Corps Personnel Retention. Report of Vol. 1, Department of the Navy, Washington, D.C.: January 1966.

## APPENDIX A

### INTERPRETATION AND USE OF "NOTAP" COMPUTER PRINTOUTS IN THE DESIGN AND DEVELOPMENT OF NAVY TRAINING PROGRAMS

(This is a discussion of the samples of "NOTAP" computer  
printouts in Attachment A to this appendix)

## PREFACE

This appendix with attachments presents basic elementary concepts for use by personnel of Navy training activities who may not have had experience in reading NOTAP computer printouts, or in the design and development of training programs based on NOTAP data.

## TABLE OF CONTENTS

|                                                                                                                | Page |
|----------------------------------------------------------------------------------------------------------------|------|
| 1. Introduction . . . . .                                                                                      | 1    |
| 2. Definitions . . . . .                                                                                       | 1    |
| 3. Basic Concepts . . . . .                                                                                    | 5    |
| 4. Purpose of Interpretation of NOTAP Computer Printouts . . . . .                                             | 6    |
| 5. Procedures . . . . .                                                                                        | 6    |
| 6. Interpretation of NOTAP Computer Printouts in Design and<br>Development of Navy Training Programs . . . . . | 6    |

| <u>Attachment No.</u> | <u>Title</u>                                                                                                                                                                                                                                    |    |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Aa1                   | Sample Sheet of a Task Inventory . . . . .                                                                                                                                                                                                      | 6  |
| Aa2                   | (Sample) Optical Scanning Response Packet . . . . .                                                                                                                                                                                             | 7  |
| Ab1                   | (Sample) Hierarchial Diagram of Task Similarity<br>Matrix . . . . .                                                                                                                                                                             | 7  |
| Ab2                   | (Sample) Print Var in Task Sequence . . . . .                                                                                                                                                                                                   | 9  |
| Ac1                   | (Sample) Duty Identifiers and Titles . . . . .                                                                                                                                                                                                  | 10 |
| Ac2                   | (Sample) Alpha-Numeric Order of All Duty/Tasks . . . . .                                                                                                                                                                                        | 10 |
| Ad1                   | (Sample) <u>Duty</u> Job Description of Group 10;<br>Cases No's. 618-669; No. Members in Group 52<br>Ordered in Sequence - Percent of Members<br><u>Performing each duty</u> . . . . .                                                          | 10 |
| Ad2                   | (Sample) <u>Task</u> Job Description of Group 10;<br>Ordered in Sequence - <u>Percent of Members</u><br><u>Performing each task</u> . . . . .                                                                                                   | 10 |
| Ad3                   | (Sample) <u>Duty</u> Job Description for Group 10;<br>Ordered in Sequence - <u>Average Percent Time</u><br><u>Spent on each duty</u> . . . . .                                                                                                  | 10 |
| Ad4                   | (Sample) <u>Task</u> Job Description for Group 10;<br>Ordered in Sequence - <u>Average Percent Time</u><br><u>Spent on each task</u> . . . . .                                                                                                  | 10 |
| Ael                   | (Sample) Duty/Task Job Description for<br>Group 10 by each paygrade E-2 through E9.<br>Cases No. 618-669; ordered by each paygrade in<br>sequence of:<br>Percent of Members Performing.<br>Average Percent Time Spent by Members<br>Performing. |    |

| <u>Attachment No.</u> | <u>Title</u>                                                                                                                                                                                                                 | <u>Page</u> |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                       | Average Percent Time Spent by All Members.<br>Cumulative Sum of Average Percent Time<br>Spent by All Members . . . . .                                                                                                       | 16          |
| Af1                   | (Sample) <u>Duty Summary of Percent of Members</u><br><u>Performing Each Duty</u> by Paygrade E-2 through E-9<br>Comparison of Paygrade groups by individual <u>Duty</u> .                                                   | 16          |
| Af2                   | (Sample) <u>Duty Summary of Percent of Members</u><br><u>Performing Each Task</u> by Paygrades E-2 through E-9<br>Comparison of Paygrade groups by individual<br><u>Duty Task</u> . . . . .                                  | 16          |
| Af3                   | (Sample) <u>Task Summary of Percent of Members</u><br><u>Performing Each Task</u> by Paygrades E-2 through E-9 .<br>Comparison of Paygrade groups by individual<br><u>Tasks</u> . (Listed in Alpha-Numeric Order.) . . . . . | 17          |
| Af4                   | (Sample) <u>Duty Summary of Average Percent Time</u><br><u>Spent</u> by All Members of Paygrades E-2 through E-9<br>Groups <u>Per Task</u> . Group Sum of E-2 through E-9 . .                                                | 17          |
| Af5                   | (Sample) <u>Duty Summary of Average Percent Time</u><br><u>Spent</u> by All Members of Paygrades E-2 through<br>E-9 Groups <u>Per Task</u> . . . . .                                                                         | 17          |
| Af6                   | (Sample) Summary of <u>Average Percent Time Spent</u><br>on each task by Paygrade groups by <u>Individual</u><br><u>Tasks</u> . (Listed in Alpha-Numeric Order.) . . . . .                                                   | 17          |
| Ag1                   | (Sample) <u>Duty Job Description of Each Paygrade</u><br><u>E-2 through E-9 Percent Members Performing;</u><br>Average Percent Time Spent . . . . .                                                                          | 18          |
| Ag2                   | (Sample) <u>Task Job Description of Each Paygrade</u><br><u>E-2 through E-9. Percent Members Performing;</u><br>Average Percent Time Spent.<br>(Listed in Alpha-Numeric Order:) . . . . .                                    | 18          |
| Ah1                   | (Sample) Equipment VARSUM by Paygrades<br>E-3 through E-9 . . . . .                                                                                                                                                          | 19          |
| Ah2                   | (Sample) Worker Characteristics of the Job by<br>Paygrades E-2 through E-9 . . . . .                                                                                                                                         | 21          |

## LIST OF TABLES

|                      | Page |
|----------------------|------|
| 1. Table 1 . . . . . | 13   |



## 1. Introduction

Work arises because of the need for the production of goods, the performance of services, or both. The term "job" is applied to a particular unit in the hierarchy of work for the production of goods and services. Jobs derive their basic structure from the nature and characteristics of this hierarchy.

The work hierarchy has as its base the work operations a single worker performs in doing a portion of his job. Its upper limit is formed by the work operations accomplished by groups of individuals combined into organizations. The names of units that compose this range of work operations are: position, job, duty, tasks and element.

## 2. Definitions

a. Position. The term "position" is the work capable of being performed by the individual.

b. Job. The term "job" is applied to a group of identical positions. Job is the unit with which the personnel transaction of selection, training, classification, and assignment are usually carried out.

c. Duty. A "duty" is one of the distinct major activities involved in the work performed by the incumbent of a position.

d. Task. A "task" is one of the work operations that constitute a logical and necessary step in the performance of a duty.

e. Element. Tasks are made up of "elements". The smallest step of a task.

f. Job Description. The written description of the work performed by the worker . . . an enumeration of tasks which comprise the job, (and the physical and mental demands of the job).

g. Job Analysis. The breakdown of a job into a series of levels of job tasks of increasing specificity.

h. Task Analysis. The breakdown of a task into a series of elements (Skill Units).

i. Skill Analysis. The breakdown of an element of a task into smaller physical and mental skills required to perform it.

---

NOTE: The introductory comments and definitions "a" through "f" were extracted from the Canadian Forces Manual on Job Analysis and Job Description Writing.

- j. Training Analysis. The establishment of learning specifications to meet stated job and task requirements. The process of arriving at learning objectives.
- k. Learning Objective. An instructional goal of the training course expressed in terms of three elements: (1) The behavioral action; (2) the condition element, and (3) the standard element. Training Objectives and learning objectives are synonymous.
- l. Terminal Objective or End of Course Objective. A learning objective describing the behavioral action expected from the student at the end of the course. Terminal and end of course objectives are identical for a course; the mission of which is to train students to perform job tasks.
- m. Enabling Objective. A learning objective which helps the student achieve a terminal or end of course objective. Lower level task elements.
- n. Mission. The general "goals" of a training activity (school), or a course. A mission should contain five elements: (1) Who is to be trained; (2) to do what job; (3) to what degree of qualification; (4) where, and (5) under what general conditions.
- o. Rating. The enlisted rating structure is the framework for career development of enlisted personnel. (i.e., AG Aerographer)
- p. Rate. (e.g., AG3)
- q. Paygrades are the levels established by legislation for pay and allowance purposes, (i.e., E-2 through E-9).
- r. Training Program. The entire training offerings of the training activity, organized and presented in accordance with planned directives, sequence, and procedures, to achieve an established operating mission; and knowledge, skills, and attitudes required of students to perform general and/or specialized professional and technical duties.
- s. Training Program Design. (1) To plan and set forth the general framework of training for the training activity which will include: training activity's training program of courses related to selected technical areas. The elements of the program so organized in a sequence and inter-relationship that when thus presented will enhance meaningful instructional procedures and learning experiences for students. (2) To arrange all parts and elements of the training program and activities

---

NOTE: Introductory comments and definitions "a" through "f" were extracted from the Canadian Armed Forces Manual Job Analysis and Job Description Writing. Definitions "g" through "h" were based on Rundquist, Job Training Course Design and Involvement.

into an integrated whole as a basis for effective instruction and relate learning objectives to general and/or specialized professional and technical duties.

t. Course of Study. An official guide for use as an aid to instruction in a given subject or technical area of study. It may include objectives of a course or technical area, scope and nature of material to be studied, instructional aids, texts and reference books, learning objectives, teaching methods and plans for the measurement of students' knowledges and skills as related to general and specialized professional and technical duty requirements.

u. Curriculum. (1) A systematic group of courses or sequence of courses required to perform jobs of a rating (e.g., AG rating). (2) A general overall plan of the content of a course that should be offered to students to qualify them to perform general or specialized professional or technical duties. (3) A body of prescribed training experiences under training to perform general and/or specialized professional and technical duties.

v. Subject. A division or field of organized knowledge.

w. Course. Organized learning objectives in which instruction is offered within a given rating (e.g., AG rating).

x. Programmed Instruction. Instruction provided by self-teaching materials (e.g., a programmed text, computer assisted instruction or other "teaching machine," or prerecorded tapes or records used for foreign language training). In this type of instruction is used a workbook, text book, or mechanical and/or electronic device which has been "programmed" to help students attain a specified level of performance by (1) providing instruction in small steps; (2) asking one or more questions about each step in the instruction and providing instant knowledge of whether each answer is right or wrong, and (3) enabling students to progress at their own pace.

y. Computer Aided Instruction (CAI). An interaction between a man and a computer system that involves two-way communication, with the objective of optimizing learning and retention by the man involved in the interaction. The role of the computer system is one of presenting programmed instructions which vary according to behaviors of the man and not one of merely assisting in retrieval of information or solution of problems.

z. Computer Managed Instruction (CMI). A system in which a computer is used to route a trainee through a series of instructional materials that are presented by various media, in order to be best suited to his particular needs and abilities.

za. Student Academic Evaluation. The appraisal of the quality of students' performance and accomplishments in activities within the training program.

zb. Examinations/Tests. Instruments prepared on paper by which students use pencils or other writing materials to answer questions appearing on the instruments which are designed to appraise knowledges and skills, achievements or present status of students' knowledges and skills obtained from a training course.

zc. Performance. The actual accomplishment of a student as distinguished from his potential ability, capacity, or aptitude.

zd. Observation. The act or process of observing students in their learning activities as a means of judging their accomplishments in training courses.

ze. Testing. A process utilizing an examination, quiz, or other procedures to measure aptitude, knowledge, skills and/or achievement of students or to diagnose the effectiveness of instruction or the adequacy of a course or course of study.

zf. Interpretation of Outcomes. A statement of significant outcomes resulting from evaluation procedures, usually involving varying amounts of interpretation, and including identified needs for strengthening or improving aspects of the training program.

zg. Follow-up and Evaluation (Training Feedback). The process of determining performance of students after completion of specific training for use as a basis for judging the effectiveness of the training program.

zh. Training Activity Evaluation. The process of appraising the adequacy of a training activity to accomplish its mission and objectives. It includes the appraisal of all factors that influence training effectiveness, such as organization, command functions - including command, policy making, academic standards, and staffing; training plans and direction functions - including effectiveness of implementation formula and policies; technical school/department operations - including student selection, instruction, counseling and guidance, and follow-up procedures; and training support functions.

zi. Training Activity Evaluative Standards. A statement of accepted quantitative and qualitative values by which the degree of excellency of a training activity may be judged. As examples - amount of financial support required, qualification of staff members - quality and amount of training facilities required, training program, achievement of students.

zj. Training Activity Evaluative Criteria. The factors considered in analyzing the status of the training activity to determine its effectiveness in terms of outcome to be achieved or of the resources for achieving the mission of the training activity. Factors considered in determining the degree the training activity meets the established institutional evaluative standards.

zk. Survey Instrument. A questionnaire, rating scale, or other printed form used in gathering information about any aspect of training.

zl. Training Equipment. Equipment which is used by the instructor and/or student as an element of the learning process, or is the subject of instruction.

### 3. Basic Concepts

Training Design. Enlisted training in the Navy has been focused too much on the qualification of personnel for advancement in rating, with the assumption that such advancement indicates qualifications for job performance which may not always be true.

The design of training programs curricula, and courses from job analysis is based on the premise that the training will prepare personnel (students) to perform - to a specified degree of excellence - the duties and tasks of each duty that they will be required to perform upon their assignment to a Navy job in a specified grade and rating.

This approach to training design requires the identification of the jobs within a rating, duties within a job, and tasks of each duty. This identification procedure is being accomplished by the Navy Occupational Task Analysis Program (NOTAP). This program not only identifies jobs, duties, and tasks of each enlisted rating but computer analysis of these data provides related data which can be used as a basis for decisions with respect to:

(1) the design of the training program.

(2) which identified jobs, duties, and duty tasks should be included in training curricula and courses, and which tasks should be taught on-the-job.

(3) the level of formal training (preparatory, basic, advanced, or specialized) each duty task should be placed.

### 4. Purpose of Interpretation of NOTAP Computer Printouts

Interpretation of NOTAP Computer Printouts in Relation to Training Design and Development. The design and development of training programs based on a task analysis approach requires two major analytical processes: (1) job analysis and (2) training analysis. NOTAP is concerned primarily with the job analysis process. Training analysis is performed by Navy training activities, using job analysis computer printouts in the process. The training analysis procedure has been explained in detail by Rundquist.<sup>1</sup>

---

<sup>1</sup>Edward A. Rundquist, Job Training Course Detail and Improvement.

The purpose of this instruction is neither to describe job analysis nor training analysis but to interpret NOTAP computer printouts in terms of their use in the design and development of training programs, curricula, and courses, so that NOTAP data will be used in the most effective way for training purposes.

## 5. Procedures

The procedures of describing how NOTAP printouts may be used most effectively in the design and development of Navy training programs, consists of interpreting and using the samples of NOTAP computer printouts in Attachment A for the design of (1) the general framework of a Naval Training Program shown in Attachment B, and (2) the format and samples of the content of a curriculum for an advanced course shown in Attachment C.

## 6. Interpretation of NOTAP Computer Printouts in Design and Development of Navy Training Programs

(See NOTAP Computer Printouts in Attachment A  
to Appendix A)

| <u>Attachment No.</u> | <u>Title</u>                     | <u>Page in</u><br><u>Attachment A</u><br><u>to Appendix A</u> |
|-----------------------|----------------------------------|---------------------------------------------------------------|
| Aa1                   | Sample Sheet of a Task Inventory | A-1                                                           |

A task inventory booklet usually consists of 200 to 400 task statements. An Inventory is constructed not for a particular position or specialty, but for the entire career structure and promotion ladder (E-2 through E-9). Thus an inventory will include work done at the apprentice, journeyman, supervisory, and directorate levels, since an incumbent may perform tasks which are above or below his skill level.

The task inventory of a rating in NOTAP is usually prepared by military personnel after considerable research of publications, directives, school curricula, and an observation/interview of job incumbents at actual work locations. The prepared booklet is then reviewed by specialists in the fleet and the technical schools to insure its applicability, currency, and adaptability to fleet administration. The completed task list - stating what an individual in a rating is doing on his job - is furnished to billet incumbents in samples of 10%-50% of the total number of personnel serving in the rating in the fleet. Each billet incumbent indicates on the response packet the relative time he spends on each task he performs. (See Attachment Aa2.) He also responds to other pertinent questions concerning training, equipment, etc.

The time spent values and the actual tasks performed are the fundamental features of the job analysis procedures. The completed booklets

are returned to NOTAP where they are optically scanned and all data placed on magnetic tape for computer processing.

The computer has been previously programmed (named Comprehensive Occupational Data Analysis Program--CODAP) to make specific analysis of the input data. Samples of the types of computer data useful for the design and development of training programs are shown in Attachment A.

| <u>Attachment No.</u> | <u>Title</u>                              | <u>Page</u> |
|-----------------------|-------------------------------------------|-------------|
| Aa2                   | (Sample) Optical Scanning Response Packet | A-3         |

#### Interpretation

This packet shows the item numbers and titles of each item of information requested from individuals who processed the "Task Inventory." The responses to items are coded in this packet for computer analysis.

#### Uses of the Optical Scanning Response Packet

For training purposes, the title of items on this packet indicate the kind of information available for computer printouts. It also gives the titles of the abbreviated headings of the "Print Variable" in Task Sequence.

| <u>Attachment No.</u> | <u>Title</u>                                                                                      | <u>Page</u> |
|-----------------------|---------------------------------------------------------------------------------------------------|-------------|
| Abl                   | (Sample) Hierarchical Diagram of Task Similarity Matrix; (See also the Time Similarity Matrix) 8a | A-8         |

#### Interpretation

A computer program with the greatest potential for manpower purposes is one which identifies and describes the job type existing in an occupational survey sample. Several NOTAP computer printouts in Attachment A present such job description data. Six of the seven printouts contain the duties or tasks that are found in the job. The other printout, Attachment Abl shows graphically how the computer combines people who perform similar tasks. These groups then may be identified as the jobs of the rating.

This computer job-clustering program begins with task level job descriptions of the "N" individual members in a sample. Each individual is considered as a group. In the first stage the computer locates the two most similar of the "N" job descriptions, i.e., the two with the greatest overlap, combines them into a single cluster, and computes and consolidates the job description. The total number of groups is thus reduced to N-1. In the next stage the computer locates and combines the two most similar of the N-1 group either by adding an individual to the pair already combined or by combining two individuals to form a new group. The total number of groups is then reduced to N-2. In successive stages the computer continues to combine individuals, to add individuals



to groups, and to merge groups according to their job descriptions. This process is repeated until all individuals are combined into a single group. A record is made during the grouping process which shows the number of members in the group (e.g., 52), and the similarity of the group formed. A group thus formed indicates a job of the rating. For example see the Administrative Supervisor job (group 10) in Attachment Abl). Task and duty job descriptions can then be printed, upon request, for groups formed at any stage of the grouping process. See Attachments Ad1, Ad2, Ad3, Ad4 and Ael for duty and task job description printouts for group 10 shown in Attachment Abl).

Attachment Abl is a sample section taken from a chart several feet long which shows the grouping process (jobs) for the entire AG rating. For the purpose of interpreting this attachment, note that group 10 (Administrative Supervisor job) is composed of 52 people (cases 618-669 shown in the first column of Attachment Ab2). As indicated by group 10, the overlap of individuals on tasks and the overlap of groups are shown in the printouts in average percentage of overlap. The overlap between groups is the critical value upon which the job clustering operates. The average percentages of 21.6 indicate the degree of similarity of group number 13 with 20 people, and group number 15 with 32 people who merge into group 10. The average percentage of 28.7 indicate the average overlap of members within group 10.

Selection of groups to be reported as significant job types is based on: overlap between groups merged (group 10, 21.6%), overlap of members within the group (group 10, 28.7%), and the size of the group (group 10, 52 members). For background data pertaining to members of group 10, see Attachment Ab2. As a working rule, groups of five members or more having a between group overlap of 40 per cent and a within group overlap of 50 per cent, are selected as job types. However, final selection must recognize the judgment of the technical analyst - who is familiar with the jobs within the rating - in identifying job types which should be included in the training program.

The titles of jobs selected from the grouping process are determined by the analyst after examination of the job description (e.g., for group 10, see Attachment Ad2) and each task included in the job description. The tasks listed for the job description in Attachment Ad2 are of an administrative nature and the percentages of members performing and time spent indicates that tasks are primarily for paygrades E-7 through E-9. The job is, therefore, given the title of Administrative Supervisor.

#### Training Uses of Diagram of Task Similarity Matrix

The jobs identified by Attachment Abl and selected for training purposes, by the technical and training analyst, are used in the following manner:



1. In the development of the content and determining the sequence of the content for the conceptual framework of the training program shown in Attachment B. The phases and courses of the training program will be based upon the jobs for which students will train. And the career pattern indicated by the training program framework will be determined by the levels of technical complexity of each job. That is, the training for some jobs should be basic in content, other jobs require advance specialized training.

2. In the development of training curricula for each course of the training program as shown in Attachment C. All jobs which have been selected by Attachment A1 as appropriate for a phase and course of the training program are transferred to Attachment C; thus, these jobs become the scope of the curriculum for a course. Each job then becomes the first step in the training analysis process as shown in Attachment C, II and III.

| <u>Attachment No.</u> | <u>Title</u>                             | <u>Page</u> |
|-----------------------|------------------------------------------|-------------|
| Ab2                   | (Sample) Print Variable in Task Sequence | A- 9        |

#### Interpretation

This computer printout is used in conjunction with the "Diagram of Task Similarity Matrix" (Attachment A1). It is the results of the responses of personnel who completed the "Task Inventories". This example shows the background and personal information about the 52 men in Group 10 of the "Diagram of Task Similarity Matrix."

The first left column of numbers, (e.g., 618-669) are computer input sequence numbers for these 52 men. The headings of columns of numbers are abbreviations for the items of the "Optical Scanning Response Packet" (Attachment Aa2). The column of numbers under each heading are background and personal information items about the Task Inventories. As an example case (person) No. 618 is serving in paygrade 5 (see column 7 in the print var, and item 7 in the "Optical Scanning Response Packet").

#### Training Uses of the Print Variable

The sequence numbers in the left column of the Print Variable are assigned by the computer in such a way that group members combined at any given stage appear together. The members of any job type are thus always found within a given input sequence range. These history and background summary reports are extremely useful. For example they serve to:

1. provide a view of the general background of people who comprise a group (e.g., group 10), and in turn who are serving in a specific job for which training will be given.
2. assist in determining jobs which can be performed by inexperienced or experienced personnel and thus provide a clue as to what phase or course the job is related when designing the training program and constructing curricula for courses.

3. identify persons working above and below their skill level.

| <u>Attachment No.</u> | <u>Title</u>                         | <u>Page</u> |
|-----------------------|--------------------------------------|-------------|
| Ac1                   | (Sample) Duty Identifiers and Titles | A-10        |

Interpretation

This attachment is a list of duties arranged alphabetically under which the computer categorized all tasks that were listed in the "Task Inventory."

(This is not a separate computer printout. It is shown here because the sample sheet in Attachment Ac2 does not show all duty titles.)

| <u>Attachment No.</u> | <u>Title</u>                                         | <u>Page</u> |
|-----------------------|------------------------------------------------------|-------------|
| Ac2                   | (Sample) Alpha-Numeric Order of All Duty/Task Titles | A-11        |

Interpretation

This is a list of all tasks which were included in the "Task Inventory" (Attachment Aa1). Tasks are listed numerically under categories of Duties which are arranged alphabetically.

Training Uses of Alpha-Numeric List of Duty Tasks

This list provides a ready reference for the training analyst in the task analysis process in determining which task to include in training curricula. That is, when using "Job Descriptions" (Attachments Ad1-Ad4, Ael, and Ag1-Ag2) to determine which task for which to train.

| <u>Attachment No.</u> | <u>Title</u>                                                                                                                                   | <u>Page</u> |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Ad1 (Sample)          | <u>Duty</u> Job Descriptions of Group 10;<br>Case No's 618-669; 52 members; in<br>sequence of members performing each <u>duty</u>              | A-12        |
| Ad2 (Sample)          | <u>Task</u> Job Descriptions of Group 10;<br>Case No's 618-669; 52 members in<br>sequence of members performing each <u>task</u>               | A-13        |
| Ad3 (Sample)          | <u>Duty</u> Job Description for Group 10;<br>Case No's 618-669; 52 members in<br>sequence of <u>average percent time spent</u><br>on each duty | A-15        |
| Ad4 (Sample)          | <u>Task</u> Job Description for Group 10;<br>Cases 618-669; 52 members; in sequence<br>of <u>average percent time spent</u> on each task       | A-16        |

The task composition of each job selected from the analysis of the "Diagram Task Similarity Matrix" (Attachment Ab1) for a rating is provided (as an example for group 10) by duty and task job descriptions in NOTAP computer printouts (Attachments Ad1-Ad4, Ael, and Ag1-Ag2). Duty and task job descriptions for all jobs selected from the "Task Similarity Matrix" can be obtained upon request in a very short time from the NOTAP program. For discussion purposes, the above four computer printouts showing duty and task job descriptions for group number 10 (the job of Administrative Supervisors) will be discussed first.

### Interpretation

The headings for each duty and task job descriptions are the same.

Group Number = 10 means that this group was formed by the computer in the "Diagram of Task Similarity Matrix" and merged at "stage 10".

Ordered from 618-669 are the case numbers of the 52 people in group 10 indicated by the "Print Var" (Attachment Ab2)

Job Description cases. = 727 means that the task inventory was administered to a sample of 727 AG personnel.

Tasks = 483 means there were 483 separate tasks in the "Task Inventory"

Duties = 19 means that the tasks were grouped under 19 duties coded as E, B, P, A, C, etc.

Members = 52 means that there were 52 people in group 10 who were performing similar tasks (homogeneous).

Selected from hierarchy position 618 through 669 are the case numbers that make up personnel in group 10. (See Attachment Ab1 and Ab2.)

Formed at stage 10 means group 10 was formed from other groups in the "Diagram of Task Similarity Matrix"

On the first page of the computer printouts for each job description are letter codes E, B, P, etc. followed by titles of duties to which all tasks are related. A complex program has been written which enables the computer to generate composite job descriptions made up of tasks performed for groups of individuals. The four columns of figures on the right of each page of job descriptions show respectively, the percentage of group members performing each duty or task, the average percentage of time spent by those members who perform the duty or task, the average percentage of time spent on each duty or task by all members of the group, and the cumulative sum of the average percent of time spent by all members. The third column sums to 100 per cent, thus showing distribution of work time for the group.

The four asterisks (\* \* \* \*) at the top of a column of numbers indicate that the column was printed by the computer in numerical sequence, beginning with the highest percentage.

The last column indicated by "N" is the cumulative sum of the number of duties or tasks in the list.

Training Uses of Duty/Task Group  
Job Descriptions

Selection of tasks for which to train. An important step in curricula construction is the selection of tasks from the total list of tasks of the "Task Inventory" for which training will be based. For discussion purposes, Table 1 shows a sample of "A" tasks which have been extracted from the job descriptions of group 10 and selected for (1) formal training; (2) on-the-job training, or (3) discarded. Selections were based on NOTAP printouts in the following manner: The NOTAP job descriptions provide partial data for making these decisions. As an example, in the job descriptions, (see Attachments Ad1-Ad4) for Administrative Supervisor, the computer has selected all administrative type of tasks related to the 19 duty categories and listed the tasks according to percent of members of group 10 who perform each task (Attachment Ad2) and the average percent of time that is spent by all members in performing each task (Attachment Ad4).

An examination of the list of over 300 tasks related to the job of "Administrative Supervisor" (Group 10) reveals that many of the tasks are of such nature that they should not be included in training curricula. The problem, therefore, is to determine for which task formal training should be given. The percentage tables for the job description help to make this decision. Experience with this type of data indicates that only tasks which are performed by 20 percent and above of the members of a job group should be included in formal training. Experience with task analysis data also indicates that the amount of time personnel spend on a task should be a factor in determining its importance as a task for which to train. Therefore the duty and task job descriptions (Attachments Ad3, Ad4) which emphasize the average amount of time spent should be examined when deciding which tasks should be selected for formal training purposes.

However, the training analysts, who know thoroughly the requirements of the rating under consideration, must also consider each task eliminated from formal training, from the standpoint of the following concepts which have been stated by the Marine Corps:

"The purpose of this section is to provide guidelines to assist in the determination of the tasks to be included in formal training.

## AG DUTY TASK TITLES

DETERMINING VALID AND ON-THE-JOB DUTY TASKS  
AND INDICATING THEIR TRAINING LEVELS BY USE  
OF NOTAP COMPUTER PRINTOUT DATA

## AGTITLES

## A...DIRECTING AND IMPLEMENTING

**JOB: Administrative Supervisor**

| JOB: Administrative Supervisor                                                                                                    | Training Level | On-the-job Training |                                    |                                  |                                            |                           |                     | Non-valid Tasks: (Do not conduct formal training for these tasks)                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------------------------------|----------------------------------|--------------------------------------------|---------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                   |                | CORE                | PREPARATORY (For Group of Ratings) | BASIC TECH. (Job Specialization) | ADVANCED TECH. (Individual or Supervisory) | ADVANCED (Particular Job) | TECHNICAL SPECIALTY |                                                                                                                                                                                                                                                                                                                                                       |
| Valid Tasks: (Conduct formal training for these tasks)                                                                            |                | P                   | A                                  | B                                | C                                          | O                         | OJ                  |                                                                                                                                                                                                                                                                                                                                                       |
| Duty Task A 20 PREPARE LOCAL DIRECTIVES                                                                                           |                |                     |                                    | B                                |                                            |                           |                     | A 1 INCORPORATE EQUIPMENT MODIFICATIONS<br>A 2 CORRELATE DATA WITH JOINT TYPHOON WARNING CENTER<br>A 3 ORGANIZE ANTISUB. WARFARE ENVIRON. PREDICTION SERVICE OPNS.<br>A 4 DEVELOP SPECIAL BATHYTERMOGRAPH CODES<br>A 5 QUALIFY/REQUALIFY COMPUTER OPERATORS<br>A 6 SET UP SPECIAL OPERATIONAL PROJECTS<br>* A 19 DRAFT TECHNICAL MANUALS/PUBLICATIONS |
| Duty Task A 7 ASSIGN PERSONNEL FOR DEPLOYMENT<br>A 14 ASSIGN COLLATERAL DUTIES<br>A 24 ASSIGN MILITARY DUTIES                     |                |                     |                                    | B                                |                                            |                           |                     | A 8 PREPARE JOB ORDERS FOR CIVILIAN PAY<br>* A 9 CHECK CIVILIAN PAYROLLS FOR ACCURACY<br>A 10 COORDINATE TUITION AID PROGRAM<br>* A 15 PARTICIPATE ON JOB QUALIFICATIONS BOARD                                                                                                                                                                        |
| Duty Task A 18 APPROVE WATCH BILLS<br>A 11 APPROVE DISAPPROVE SPECIAL REQUESTS<br>A 13 NOMINATE PERSONNEL FOR SPECIAL RECOGNITION |                |                     |                                    | B                                |                                            |                           |                     | A 21 NOTIFY ACTIVITIES OF BUDGET AUTHORIZATIONS<br>* A 23 PREPARE ACCOUNTING BUDGET                                                                                                                                                                                                                                                                   |
| Duty Task A 16 CONDUCT REPORTING ABOARD INTERVIEWS                                                                                |                |                     |                                    | B                                |                                            |                           |                     |                                                                                                                                                                                                                                                                                                                                                       |
| Duty Task A 17 SUPERVISE CIVILIAN PERSONNEL                                                                                       |                |                     |                                    | B                                |                                            |                           |                     |                                                                                                                                                                                                                                                                                                                                                       |
| Duty Task A 22 CONTROL OPERATING EXPENSES                                                                                         |                |                     |                                    | B                                |                                            |                           |                     |                                                                                                                                                                                                                                                                                                                                                       |
| Valid tasks to be transferred to duty                                                                                             |                |                     |                                    |                                  |                                            |                           |                     |                                                                                                                                                                                                                                                                                                                                                       |
| A 12 CONDUCT PHYSICAL FITNESS PROGRAMS (D)                                                                                        |                |                     |                                    |                                  |                                            |                           |                     |                                                                                                                                                                                                                                                                                                                                                       |
| A 25 CONDUCT ZONE INSPECTIONS (C)                                                                                                 |                |                     |                                    |                                  |                                            |                           |                     |                                                                                                                                                                                                                                                                                                                                                       |

\* Asterisk indicates tasks that should be included in on-the-job training.

The above "A" tasks were extracted from the job descriptions for Group 10, with 52 members (cases 618-669). These "A" only duty tasks serve as an example to demonstrate how tasks of a job description of NOTAP computer printouts must be selected and categorized according to:

- a. valid tasks for which formal training shall be given
- b. tasks for which on-the-job training shall be given
- c. levels of training for which formal training tasks, are most appropriate
- d. non-valid tasks for which training shall not be given.

In practice all tasks which comprise group job descriptions must be included in the above type of analysis.

Also, in practice, when performing an analysis, each valid task should be written on a card, and then cards grouped according to training levels, for use when determining for what course each task is most appropriate.

MAJOR CONSIDERATIONS. The below-listed considerations are provided to assist in the determination of the behaviors to be included in formal training. It is not necessary that those behaviors selected meet all of these considerations if only one condition is met and that is of sufficient impact, it may be included. Conversely, behaviors could meet a majority of the considerations more appropriate for learning on the actual job.

1. Universality. The skill and its associated knowledge are used by personnel in their assignment regardless of the location and type unit. The criteria of universality connotes a wide application of the skill and the desirability of including it in course content. In cases where a skill is unique, i.e., required at only one or a small percentage of the job performance locations, it should be learned on the job unless the criticality of the task dictates otherwise.
2. Criticality. This consideration applies to the importance of a skill performance and its effect on the accomplishment of the mission. For example, in the performance of effective first echelon maintenance, a crack in the paint on a vehicle requires refinishing; however, it does not directly bear on mission accomplishment, whereas the skill of changing a tire could affect mission performance. Where a behavior is critical to mission performance, it should be considered for inclusion in formal training.
3. Difficulty. Skills which are not easily learned should receive a high priority for formal school instruction. The ability to disassemble a complicated piece of equipment could conceivably be learned on the job; however, it would expend an excessive amount of time and could possibly endanger the life of the learner and others.
4. Frequency. The fact that a task is performed often and occupies a major portion of the job incumbent's time does not necessarily warrant its inclusion. However, if it is more economical to teach it, rather than learn it on the job and if there is a consistently higher standard or product as a result of its being accomplished in a "best way," then it may be identified for standard instruction.
5. Practicability. This focuses on the question, "Is the time and effort worth the formal training?" This is particularly applicable when determining what level of proficiency should be taught. It is possible to teach any skill in the formal environment, however, the cost of devices, additional equipment and time expended may not produce a significant advantage over on-the-job, or self-taught methods. For example, typing is a skill considered worthy of formal school training. The proficiency in this skill has a break-even point beyond which increased proficiency is a direct result of continuous practice.

---

NOTE: The nine major considerations were extracted from Marine Corps ORDER P1510.10.23A, Design of Courses of Instruction

It is considered uneconomical to extend the training time beyond the break-even point to obtain the necessary practice.

6. Achievability. This directs attention to the attainability of the skill required. If the intelligence or maturity of the student population cannot accomplish the behavior, or the standards are beyond the reach of a majority of the students, then it cannot be prudently accepted as a valid goal. Using the foregoing typing example, it would be inappropriate to require each student to be able to type 120 words per minute prior to graduation.

7. Deficiency. Where job skills performed in the field are constantly accomplished in a poor or below-average manner an indication exists that learning should be accomplished in a formal school environment.

8. Retainability. This consideration is closely related to frequency, difficulty and criticality. Once learned, a skill which is not used or reinforced deteriorates. The infrequent use of a noncritical skill may require that it be learned on the job and reinforced in unit training programs. However, a critical, difficult and infrequently practiced skill may require training to a higher skill level than the field requirement in order to ensure that, considering deterioration, a specific skill level will be retained. In the case of training for a higher skill level, specific note should be made of this fact to preclude future review efforts from reducing the training based solely on field performance requirements.

9. Follow-on Training. In preparing a course of instruction, it is necessary to consider the on-the-job learning, or formal schooling which will subsequently occur. This is necessary in order to prepare the student for such instruction and to permit the designers of the follow-on course to be able to proceed from an established skill level."

Uses of valid tasks for which to train. Tasks selected for formal training for a job as indicated in Table 1 are then used in the task analysis and writing learning objective in the development of a curriculum for a course. See Attachment C, III, DUTY TASK ANALYSIS and IV COURSE CONTENT (Learning Objectives).

The analysis shown in Table 1 however cannot be completed until decisions are made with respect to the paygrades (E-2 through E-9) to which training should be given. These decisions are based on an analysis of data found in the following printout.



| <u>Attachment No.</u> | <u>Title</u>                                                                                                                                                                                                                                                                                                                                                            | <u>Page</u> |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Ae1 (Sample)          | Duty/Task Job Descriptions for Group 10<br>by Paygrades E-3/E-9 Cases No. 618-669;<br>No. members in Group - 52; Ordered in<br>Sequence by Each Paygrade.<br><br>Percent of Members Performing<br>Average Percent Time Spent by Members<br>Performing<br>Average Percent Time Spent by All<br>Members<br>Cumulative Sum of Average Percent Time<br>Spent by All Members | A-18        |

This computer printout identifies the task composition of group 10 (the job of Administrative Supervisors) by paygrades.

#### Interpretation

The job descriptions for group 10 presented in Attachments Ad1-Ad4 list tasks for 52 individuals of the group. The above job descriptions (Attachment Ae1) are for each paygrade E-3 through E-9 in group 10. The printouts show the number of individuals in each paygrade group, the percentage of members in each paygrade group that performs each task and the average percent of time spent in performing each task by each paygrade group.

#### Training Uses of Duty/Task Job Descriptions by Paygrades E-3 - E-9

The jobs descriptions are used for the same purpose as job descriptions for total members of a group (e.g., group 10). That is to select tasks for which to write terminal objectives in the curriculum. They provide additional information in making the analysis as shown in Table 1. In addition, since tasks are listed according to each paygrade, this type of listing will give further evidence as to which tasks are appropriate for what level of training (e.g., basic, advanced).

| <u>Attachment No.</u> | <u>Title</u>                                                                                                                                            | <u>Page</u> |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Af1 (Sample)          | <u>Duty Summary of Percent of Members Performing</u><br>Each Task<br>Comparison of Paygrade groups by Individual<br>Duty                                | A-30        |
| Af2 (Sample)          | <u>Duty Summary of Percent of Members Performing</u><br>Each Task by Paygrades E-2 through E-9.<br>Comparison of Paygrade Groups by Individual<br>Tasks | A-31        |



| <u>Attachment No.</u> | <u>Title</u>                                                                                                                                                                      | <u>Page</u> |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Af3 (Sample)          | <u>Task</u> Summary of Percent of Members Performing Each Task by Paygrade E-2 through E-9<br>Comparison of Paygrade Groups by Individual Tasks (Alpha-Numeric Order)             | A-32        |
| Af4 (Sample)          | <u>Duty</u> Summary of Average Percent Time Spent by All Members of Paygrades E-2 through E-9<br>Groups Per Task. Group Sum of E-2 through E-9.                                   | A-33        |
| Af5 (Sample)          | <u>Duty</u> of Average Percent Time Spent by All Members of Paygrade E-2 through E-9<br>Groups Per Task.                                                                          | A-34        |
| Af6 (Sample)          | <u>Task</u> Summary of Average Percent Time Spent on Each Task by Paygrade E-2 through E-9<br>Groups.<br>Comparison of Paygrade Groups by Individual Tasks. (Alpha-Numeric Order) | A-35        |

This group of computer printouts are the summary of the percentage of each paygrade group that collectively perform each of the 19 duties and 484 tasks, and the amount of time each paygrade group spends on each of the 19 duties and 484 tasks. Thus, summaries reveal when tasks should be introduced into the career ladder (E-2/E-9) training and at what level of training (preparatory, basic, or advanced) each task is most appropriate.

#### Interpretation

Three of the summaries show the percent of all members of the sample (727) - distributed by paygrade (E-2 through E-9) groups - that perform each of the 19 duties and each of the 484 tasks related to these duties. (See Attachments Af1-Af3.) The other three summaries show the average percent of time spent by the sample of 727 members - distributed by paygrade (E-2 through E-9) groups - each of the 19 duties and each of the 484 tasks. (See Attachments Af4-Af6). Attachment Af3 shows an example of the Alpha-numeric arrangements of all "A" tasks that appear in Attachment Af2. Attachment Af6 shows an example of the Alpha-numeric arrangement of "A" tasks which appear in Attachment Af5.

#### Training Uses of Duty and Task Summaries

These summaries are ready references:

1. To further support the validity of tasks selected in Table 1 for formal and on-the-job training.

---

NOTE: Af3 and Af6 are not available in Alpha-Numeric format as of this writing. However, efforts are in process to re-program for this capability.

2. to determine at what level of training shown in Table 1 each identified job and duty task should be placed. As an example, Attachment Af3 indicates that the training for "A" tasks and the job of Administrative Supervisor to which the "A" tasks are related is primarily for paygrades E-7, E-8, and E-9. Therefore, these tasks should be placed in the ADVANCED TECHNICAL level of training (B School), as indicated by Table 1.

3. to assist in determining the design of the Training Program which is made up of several levels of courses as shown in Attachment B. This design in turn will determine the scope and content of the curriculum for courses. An example is shown in Attachment C.

4. to insure that entry-level courses are based on tasks that appear in jobs assigned to personnel during their first enlistment. And that advanced courses are based on tasks that appear in jobs requiring advanced technical and highly specialized performance.

5. to insure that on-the-job training will have some degree of structure to the extent that performance will be on jobs and tasks that have been identified by the job task analysis process.

| <u>Attachment No.</u> | <u>Title</u>                                                                                                                                                                                                                                             | <u>Page</u> |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Ag1 (Sample)          | <u>Duty</u> Job Description Each Paygrades E-2 - E-9<br>Percent of Members (in Each Paygrade Group)<br>Performing and Average Percent Time Spent<br>by Each Paygrade Group                                                                               | A-36        |
| Ag2 (Sample)          | <u>Task</u> Job Description of Each Paygrade E-2 - E-9<br>(Task Arranged in: Alpha-Numeric sequence)<br>Percent of Member (in Each Paygrade Group)<br>Performing Each Task.<br>and<br>Average Percent Time Spent by Each Paygrade<br>Group on Each Task. | A-37        |

This third group of NOTAP computer printouts shows the "Duty Job Descriptions" and "Task Job Descriptions" for each paygrade, E-2 through E-9.

#### Interpretation

The job description for each paygrade (e.g., E-3) indicates the number of individuals in that paygrade group (e.g., the printout shows that there are 74 members in E-3 paygrade group, and 140 members in E-4 group, etc.). The sum of members in all paygrades is 727, which is the total of the sample. The computer has selected from the total of all tasks (484) those tasks which the group in a paygrade performs. Opposite each task, in four columns, is indicated:

(1) the percent of members in the paygrade group (e.g., 74 in the E-3 paygrade group) who perform each task.

(2) the average percent time spent by members in the paygrade group (e.g., 74 in the E-3 paygrade group) who perform the tasks.

(3) the average percent time spent by all members in the paygrade group (e.g., 74 in the E-3 paygrade group) performing each task.

(4) the cumulative sum of average percent time spent by all members (e.g., 74 members in E-3 paygrade) performing each task. The "1." column in the cumulative total of the number of duties or tasks for the paygrade group.

#### Training Uses Job Descriptions of Paygrades Groups

Job descriptions by paygrades are used for the same purpose as duty and task summaries by paygrades. That is (1) to further validate tasks selected for formal training (see Table 1); (2) to support decisions to place specific tasks in the various levels of training, (see Table 1); (3) to assist in the determination of levels of courses for the Training Program (see Attachment B), and (4) to insure that levels of courses (preparatory, basic, advanced) are based on tasks appropriate for the paygrades of individuals who will be trained by the course. That is, advanced paygrades will be trained by courses made up of tasks selected from job descriptions of advanced paygrades. (See Attachments B and C.)

| <u>Attachment No.</u> | <u>Title</u>                 | <u>Page</u> |
|-----------------------|------------------------------|-------------|
| Ah1. (Sample)         | Equipment VARSUM by Paygrade | A-41        |

This is a sample of the printout that shows a summary of the kinds of equipment with which AG paygrade group members are in contact when performing jobs and tasks.

#### Interpretation

VARSUM: means variable summary

At the top of the summary are the groups (E-3 through E-9) included with the number of members in each paygrade group (total 724.)

Variable data on: V130 is the computer code number for the specific equipment.

e.g., Semi Automatic Station GMQ 14 series is the name of the equipment.

Interval is:

|                     |           |                                                            |
|---------------------|-----------|------------------------------------------------------------|
|                     | <u>E3</u> |                                                            |
| 1. Use or operate   | 46        | means 46 E-3's use or operate the equipment                |
| 2. Repair           | 1         | means that 1 E-3 repairs the equipment                     |
| 3. Do both          | 0         | means that 0 E-3's use or operate and repair the equipment |
|                     | —         |                                                            |
| Total counted above | 47        | is the total of the above<br>(46 + 1 + 0 = 47)             |
| Other               | 27        | means that 27 E-3's do not have contact with the equipment |

#### Training Uses of Equipment VARSUM by Paygrade

This summary of operational equipment for a rating is very useful in the training analysis process when:

1. Designing the training program (see Attachment B). The VARSUM should be consulted in decisions with respect to the number and level of courses required. For example, equipment operated or maintained by E-2's should be included in basic level training. If a piece of equipment is the concern of higher paygrades, it should be included in advanced technical or specialized courses. After reviewing the data in the Equipment VARSUM, the training analyst and technical specialist must then decide what course should be offered in order to include equipment that is necessary to train students to perform in jobs of the rating. In other words, a matching of jobs, equipment, and course levels must take place.

2. Making decisions to eliminate old equipment or add new equipment in the training process. The Equipment VARSUM provides valuable data on the extent to which various kinds of equipment are used or maintained in the fields; thus, dictating what equipment should be included in the training process.

3. Constructing curricula for training courses (see Attachment C). The Equipment VARSUM should be consulted in relation to the construction of the following aspects of curriculum:

a. Item II, Scope (Task Based Jobs). Jobs identified by the "Diagram of Task Similarity Matrix" should be checked against data in the Equipment VARSUM to determine what equipment should be involved in the training process, for each job.

b. Item III, Duty Task Analysis. Enabling Objectives may need to be expressed in terms of action on specific equipment. The equipment code number (e.g., V154) which identifies the equipment in the VARSUM should appear in enabling objectives, if action of the equipment is required.

c. Item IV, Course Content. Learning objectives may be concerned with duty tasks and/or skill tasks related to equipment, training tasks which require student performance on the equipment, and a standard of performance on the equipment. The equipment code number (e.g., V154) which identifies the equipment in the VARSUM should appear in the duty task, skill task, and training task if these tasks are concerned with action on a specific kind of equipment.

d. Summary of Operational Equipment for Which Training is Conducted. A list of each item of equipment which has been included in item IV, Course Content of the curriculum should be listed under the course and job to which their equipment item is related.

| <u>Attachment No.</u> | <u>Title</u>                                                   | <u>Page</u> |
|-----------------------|----------------------------------------------------------------|-------------|
| Ah2                   | Worker Characteristics of the Job by Pay-grade E-2 through E-9 | A-43        |

This computer printout portrays the degree of physical, mental and leadership characteristics that is required to perform the jobs of each paygrade E-2 through E-9.

#### Interpretation

The numbers at the top of the printout (e.g., Group identity = AG SPCE22 CONTAINING 3 Members) means AG = rating; SPC = special; E2 = paygrade; 3 members - 3 members of the total of 727 comprise the E2 group.

VARIABLE DATA ON: VO50 is the computer code number assigned the job characteristic of FINGER, HAND, WRIST, and FOREARM STRENGTH:

| INTERVAL            | AGSPCE22 --- AGSPCE82 --- |
|---------------------|---------------------------|
| 3 Below Average     | 0 5                       |
| 4 Average           | 2 18                      |
| 5 Above Average     | 0 3                       |
| TOTAL COUNTED ABOVE | 2* 26*                    |
| OTHER               | 1 0                       |

Intervals: 3 Below Average, 4 Average, and 5 Above Average is the scale in the Inventory (see Item C in Attachment Aa2) which the sample of individuals who processed the Inventories answered Item C "Worker Characteristics of the Job".

The numbers under AGSPCE2 and AGSPCE8 are the numbers of 3 members in the E-2 paygrade, and of the 26 members in the E-8 paygrade who answered that there is below average, average or above average hand, wrist, and forearm strength required in the jobs for the E-2 and E-8 paygrades. These data for E-2 paygrade indicate that 2 out of 3 (66.6%) of E-2's indicated that average hand, wrist, and forearm strength is required for their jobs; and of the 11 members in E-8 paygrade, 5 members or approximately 45%, 3 members or 27%, and 3 members or 27% indicated that hand, wrist and forearm strength were required in their jobs.

#### Training Uses of Worker Characteristics of Jobs by Paygrade Data

Analysis of data in this printout provides further evidence for the placement of various jobs of a rating in appropriate paygrades which in turn gives clues as to which job should be placed in what level of training (basic, advanced or specialized advanced). As examples, the printout data may show that E-2 paygrade jobs are characterized by certain physical demands such as coordination of eyes, hands and feet, while E-9 paygrade jobs are characterized by such demands as personality, emotional stability, public relations, leadership, adaptability, and decision making. These further indicate advanced supervisory type of training.

These types of results from data analysis, are therefore, used (1) in designing the training program (determining courses) as indicated by Attachment B, and (2) in writing training tasks when writing learning objectives for a curriculum. (See topic IV course content of Attachment C.) As an example, if the "Job" and "Duty Task" for which the "Training Task" is being written requires such factors as team work, leadership, adaptability, decision making, concentration, and emotional stability; then the training task should be written so that the student would be required to experience or demonstrate these factors in training situations.

However, if the "Job" and "Duty Task" for which the "training task" is being written requires eye, hand, feet coordination, then the training task should be written so that the student will practice the coordination required to achieve the standard specified in the "learning objective". (See topic IV course content of Attachment C.)

In addition the worker characteristics summary can be used to determine physical requirements for entry into training.

Attachment A

Sample Pages of  
NOTAP COMPUTER PRINTOUTS  
FOR USE IN  
DESIGN AND DEVELOPMENT OF NAVY TRAINING PROGRAMS  
(Aerographer's Mate, AG)

(Samples of kinds of computer printouts are designated  
as Attachments Aa1 through Ah2.)

# TABLE OF CONTENTS

| <u>Attachment No.</u> | <u>Title</u>                                                                                                                                                                                                                                                                                                                                                               | <u>Page</u> |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Aa1                   | Sample Sheet of a Task Inventory . . . . .                                                                                                                                                                                                                                                                                                                                 | A-1         |
| Aa2                   | (Sample) Optical Scanning Response Packet . . . . .                                                                                                                                                                                                                                                                                                                        | A-3         |
| Ab1                   | (Sample) Hierarchical Diagram of Task Similarity<br>Matrix ; and Time Similarity Matrix . . . . .                                                                                                                                                                                                                                                                          | A-8, 8a     |
| Ab2                   | (Sample) Print Var in Task Sequence . . . . .                                                                                                                                                                                                                                                                                                                              | A-9         |
| Ac1                   | (Sample) Duty Identifiers and Titles . . . . .                                                                                                                                                                                                                                                                                                                             | A-10        |
| Ac2                   | (Sample) Alpha-Numeric Order of All Duty/Tasks . . . . .                                                                                                                                                                                                                                                                                                                   | A-11        |
| Ad1                   | (Sample) <u>Duty</u> Job Description of Group 10;<br>Cases No. 618-669; No. Members in Group 52<br>Ordered in Sequence - <u>Percent of Members</u><br><u>Performing each duty</u> . . . . .                                                                                                                                                                                | A-12        |
| Ad2                   | (Sample) <u>Task</u> Job Description of Group 10;<br>Ordered in Sequence - <u>Percent of Members</u><br><u>Performing each task</u> . . . . .                                                                                                                                                                                                                              | A-13        |
| Ad3                   | (Sample) <u>Duty</u> Job Description for Group 10;<br>Ordered in Sequence - <u>Average Percent Time</u><br><u>Spent on each duty</u> . . . . .                                                                                                                                                                                                                             | A-15        |
| Ad4                   | (Sample) <u>Task</u> Job Description for Group 10;<br>Ordered in Sequence - <u>Average Percent Time</u><br><u>Spent on each task</u> . . . . .                                                                                                                                                                                                                             | A-16        |
| Ae1                   | (Sample) Duty/Task Job Description for<br>Group 10 by each paygrade E-2 through E-9.<br>Cases No. 618-669; ordered by each paygrade in<br>sequence of:<br>Percent of Members Performing.<br>Average Percent Time Spent by Members<br>Performing.<br>Average Percent Time Spent by All Members.<br>Cumulative Sum of Average Percent Time<br>Spent by All Members . . . . . | A-18        |
| Af1                   | (Sample) <u>Duty</u> Summary of <u>Percent of Members</u><br><u>Performing Each Duty</u> by Paygrades E-2<br>through E-9<br>Comparison of Paygrade groups by individual <u>Duty</u> . . . . .                                                                                                                                                                              | A-30        |



| <u>Attachment No.</u> | <u>Title</u>                                                                                                                                                                                       | <u>Page</u> |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Af2                   | (Sample) <u>Duty Summary of Percent of Members Performing Each Task by Paygrades E-2 through E-9; Comparison of Paygrade groups by individual Duty Task</u> . . . . .                              | A-31        |
| Af3                   | (Sample) <u>Task Summary of Percent of Members Performing Each Task by Paygrades E-2 through E-9 Comparison of Paygrade groups by individual Tasks. (Listed in Alpha-Numeric Order.)</u> . . . . . | A-32        |
| Af4                   | (Sample) <u>Duty Summary of Average Percent Time Spent by All Members of Paygrades E-2 through E-9 Groups Per Task. Group Sum of E-2 through E-9</u> . . . . .                                     | A-33        |
| Af5                   | (Sample) <u>Duty Summary of Average Percent Time Spent by All Members of Paygrades E-2 through E-9 Groups Per Task</u> . . . . .                                                                   | A-34        |
| Af6                   | (Sample) <u>Summary of Average Percent Time Spent on each task by Paygrade groups by Individual Tasks. (Listed in Alpha-Numeric Order.)</u> . . . . .                                              | A-35        |
| Ag1                   | (Sample) <u>Duty Job Description of Each Paygrade E-2 through E-9 Percent Members Performing; Average Percent Time Spent</u> . . . . .                                                             | A-36        |
| Ag2                   | (Sample) <u>Task Job Description of Each Paygrade E-2 through E-9. Percent Members Performing; Average Percent Time Spent. (Listed in Alpha-Numeric Order.)</u> . . . . .                          | A-37        |
| Ah1                   | (Sample) <u>Equipment VARSUM by Paygrades E-3 through E-9</u> . . . . .                                                                                                                            | A-41        |
| Ah2                   | (Sample) <u>Worker Characteristics of the Job by Paygrades E-2 through E-9</u> . . . . .                                                                                                           | A-43        |

TASK INVENTORY  
( AEROGRAPHER'S MATE)

(Sample page of tasks)

- \_\_321. Assign personnel for deployment
- 322. Prepare situation reports
- 323. Prepare recurring reports
- 324. Prepare/maintain Watch Quarter and Station Bill
- 325. Sign off practical factors
- 326. Draft local forms
- \_\_327. Prepare job orders for civilian pay
- \_\_328. Check civilian payrolls for accuracy
- \_\_329. Coordinate Tuition Aid Program
- \_\_330. Approve/disapprove special requests
- 331. Prepare recall bills
- 332. Prepare enlisted performance evaluations
- \_\_333. Conduct physical fitness programs
- 334. Participate in physical fitness programs
- 335. Make arrangements for ceremonies/inspections
- 336. Maintain organization charts
- \_\_337. Nominate personnel for special recognition
- \_\_338. Assign collateral duties
- 339. Maintain leave schedules
- 340. Maintain Division Officer's Notebook

OPTICAL SCANNING RESPONSE PACKET (Attachment Aa2)

# NAVAL OCCUPATIONAL TASK ANALYSIS PROGRAM

**MY RATE—**

MY NAME John Doe

**A - 1 BILLET IDENTIFICATION**

[illegible]

## 2. SEQUENCE CODE

| 2. |   | SEQUENCE CODE |    |    |    |
|----|---|---------------|----|----|----|
| 00 | 0 | 00            | 00 | 00 | 00 |
| 01 | 1 | 01            | 01 | 01 | 01 |
| 02 | 2 | 02            | 02 | 02 | 02 |
| 03 | 3 | 03            | 03 | 03 | 03 |
| 04 | 4 | 04            | 04 | 04 | 04 |
| 05 | 5 | 05            | 05 | 05 | 05 |
| 06 | 6 | 06            | 06 | 06 | 06 |
| 07 | 7 | 07            | 07 | 07 | 07 |
| 08 | 8 | 08            | 08 | 08 | 08 |
| 09 | 9 | 09            | 09 | 09 | 09 |

### 3. BILLET PRIMARY

| 3. BILLET PRIMARY | NEC |   |   |   |
|-------------------|-----|---|---|---|
| 0                 | 0   | 0 | 0 | 0 |
| 1                 | 1   | 1 | 1 | 1 |
| 2                 | 2   | 2 | 2 | 2 |
| 3                 | 3   | 3 | 3 | 3 |
| 4                 | 4   | 4 | 4 | 4 |
| 5                 | 5   | 5 | 5 | 5 |
| 6                 | 6   | 6 | 6 | 6 |
| 7                 | 7   | 7 | 7 | 7 |
| 8                 | 8   | 8 | 8 | 8 |
| 9                 | 9   | 9 | 9 | 9 |

#### 4. BILLET SECONDARY

| 4. BILLET SECONDARY | NEC |   |
|---------------------|-----|---|
| 00                  | 0   | 0 |
| 01                  | 1   | 1 |
| 02                  | 2   | 2 |
| 03                  | 3   | 3 |
| 04                  | 4   | 4 |
| 05                  | 5   | 5 |
| 06                  | 6   | 6 |
| 07                  | 7   | 7 |
| 08                  | 8   | 8 |
| 09                  | 9   | 9 |

## INSTRUCTIONS

1. Use No. 2 pencil only.
2. Do not use a pen or other pencil.
3. Indicate your response with a solid black mark in the space provided.
4. Erase - completely all changes.

## A - 2 PERSONÄL INFORMATION

[illegible]

AMOUNT OF TIME SERVED IN:

| 14. U.S. NAVY |        |  | 15. MY PRESENT RATING |        | 16. MY PRESENT ACTIVITY |        | 17. MY PRESENT PAYGRADE |        |
|---------------|--------|--|-----------------------|--------|-------------------------|--------|-------------------------|--------|
| YEARS         | MONTHS |  | YEARS                 | MONTHS | YEARS                   | MONTHS | YEARS                   | MONTHS |
| 10            | 10     |  | 10                    | 0      | 0                       | 0      | 0                       | 0      |
| 11            | 11     |  | 11                    | 1      | 1                       | 1      | 1                       | 1      |
| 12            | 12     |  | 12                    | 2      | 2                       | 2      | 2                       | 2      |
| 13            | 13     |  | 13                    | 3      | 3                       | 3      | 3                       | 3      |
| 14            | 14     |  | 14                    | 4      | 4                       | 4      | 4                       | 4      |
| 15            | 15     |  | 15                    | 5      | 5                       | 5      | 5                       | 5      |
| 16            | 16     |  | 16                    | 6      | 6                       | 6      | 6                       | 6      |
| 17            | 17     |  | 17                    | 7      | 7                       | 7      | 7                       | 7      |
| 18            | 18     |  | 18                    | 8      | 8                       | 8      | 8                       | 8      |
| 19            | 19     |  | 19                    | 9      | 9                       | 9      | 9                       | 9      |

18. FORMAL EDUCATION

| FURNAL EDUCATION | Yrs. Completed | Degrees or Diplomas |                                                   |
|------------------|----------------|---------------------|---------------------------------------------------|
|                  |                | None                | High School Associate Bachelors Masters Doctorate |
| 0                | 10             | 1                   | 1                                                 |
| 1                | 1              | 1                   | 1                                                 |
| 2                | 22             | 1                   | 1                                                 |
| 3                | 43             | 1                   | 1                                                 |
| 4                | 75             | 1                   | 1                                                 |
| 5                | 66             | 1                   | 1                                                 |
| 6                | 73             | 1                   | 1                                                 |
| 7                | 81             | 1                   | 1                                                 |
| 8                | 92             | 1                   | 1                                                 |

19. ☒ SEX

|     |        |                                                        |     |                    |
|-----|--------|--------------------------------------------------------|-----|--------------------|
| SEX | Male   | 10. <input checked="" type="checkbox"/> NAVAL CATEGORY | USN | USNR               |
|     | Female |                                                        |     | (REACTIVE)<br>USNR |

DO NOT MARK  
IN THIS SPACE

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

## NAVAL OCCUPATIONAL TASK ANALYSIS PROGRAM

BACKGROUND  
INFORMATION  
SHEET

Page 2

## A - 2 PERSONAL INFORMATION (Continued)

| 21. MY PRIMARY NEC |   |
|--------------------|---|
| 0                  | 1 |
| 2                  | 3 |
| 4                  | 5 |
| 6                  | 7 |
| 8                  | 9 |

| 22. MY SECONDARY NEC |   |
|----------------------|---|
| 0                    | 1 |
| 2                    | 3 |
| 4                    | 5 |
| 6                    | 7 |
| 8                    | 9 |

| 23. I AM TRAINING FOR (RATING or NEC) |   |
|---------------------------------------|---|
| 0                                     | 1 |
| 2                                     | 3 |
| 4                                     | 5 |
| 6                                     | 7 |
| 8                                     | 9 |

| 24. I ACQUIRED MY NEC THROUGH |      |
|-------------------------------|------|
| SOURCE                        | Prim |
| Class "A" School              | Sec  |
| Class "B" School              |      |
| Class "C" School              |      |
| Factory Train.                |      |
| OJT                           |      |
| Other                         |      |

| 25. I ACQUIRED MY RATING THROUGH |  |
|----------------------------------|--|
| SOURCE                           |  |
| Class "A" School                 |  |
| Class "B" School                 |  |
| Class "C" School                 |  |
| OJT                              |  |
| Other                            |  |

## INSTRUCTIONS

1. Use No. 2 pencil only.
2. Do not use a pen or other pencil.
3. Indicate your response with a solid black mark in the space provided.
4. Erase completely all changes.
5. Do not detach forms from the pocket.

| 26. AMOUNT OF OJT REQUIRED TO DO MY JOB |   |
|-----------------------------------------|---|
| 0                                       | 1 |
| 2                                       | 3 |
| 4                                       | 5 |
| 6                                       | 7 |
| 8                                       | 9 |

| 27. AMOUNT OF CLASSROOM TRNG REQ. IN MY JOB |   |
|---------------------------------------------|---|
| 0                                           | 1 |
| 2                                           | 3 |
| 4                                           | 5 |
| 6                                           | 7 |
| 8                                           | 9 |

| 28. AMOUNT OF WORK EXPERIENCE REQ. IN MY JOB |   |
|----------------------------------------------|---|
| 0                                            | 1 |
| 2                                            | 3 |
| 4                                            | 5 |
| 6                                            | 7 |
| 8                                            | 9 |

| 29. NO. OF PEOPLE I SUPERVISE |   |
|-------------------------------|---|
| 0                             | 1 |
| 2                             | 3 |
| 4                             | 5 |
| 6                             | 7 |
| 8                             | 9 |

| 30. AMOUNT OF SUPERVISION I RECEIVE |  |
|-------------------------------------|--|
| None                                |  |
| Very Little                         |  |
| Little                              |  |
| Much                                |  |
| Very Much                           |  |

| 31. NO. OF HRS. YOU WORK EACH WEEK |   |
|------------------------------------|---|
| 0                                  | 1 |
| 2                                  | 3 |
| 4                                  | 5 |
| 6                                  | 7 |
| 8                                  | 9 |

| 32. DO YOU PLAN TO REENLIST? |  |
|------------------------------|--|
| YES                          |  |
| NO                           |  |
| UNCERTAIN                    |  |

|   |   |
|---|---|
| 0 | 1 |
| 2 | 3 |
| 4 | 5 |
| 6 | 7 |
| 8 | 9 |

| 33. NO. OF MOS I HAVE WORKED OUT OF MY RATING |   |
|-----------------------------------------------|---|
| 0                                             | 1 |
| 2                                             | 3 |
| 4                                             | 5 |
| 6                                             | 7 |
| 8                                             | 9 |

| 34. DOES YOUR JOB UTILIZE ALL OF YOUR MOST RECENT NEC TRAINING? |  |
|-----------------------------------------------------------------|--|
| YES                                                             |  |
| NO                                                              |  |
| NOT APPLICABLE                                                  |  |

| 35. DID YOU HAVE ANY OCCUPATIONAL TRAINING PRIOR TO ENTERING THE SERVICE THAT YOU NOW USE IN YOUR JOB? |  |
|--------------------------------------------------------------------------------------------------------|--|
| YES                                                                                                    |  |
| NO                                                                                                     |  |

| 36. IF YOU ARE EMPLOYED IN AN OFF-DUTY JOB IS IT RELATED TO YOUR RATING OR NAVY TRNG? |  |
|---------------------------------------------------------------------------------------|--|
| YES                                                                                   |  |
| NO                                                                                    |  |

| 37. HAVE YOU EVER RECEIVED A VRB PAYMENT? |  |
|-------------------------------------------|--|
| YES                                       |  |
| NO                                        |  |

| 38. WHAT IS THE MINIMUM EDUCATIONAL GRADE LEVEL REQUIRED IN YOUR JOB? |  |
|-----------------------------------------------------------------------|--|
| 8th                                                                   |  |
| 10th                                                                  |  |
| 12th                                                                  |  |
| Above HS                                                              |  |

| 39. DO YOU PLAN TO CONTINUE YOUR FORMAL EDUCATION WHILE IN SERVICE? |  |
|---------------------------------------------------------------------|--|
| YES                                                                 |  |
| NO                                                                  |  |
| UNCERTAIN                                                           |  |

| DO NOT MARK IN THIS SPACE |   |
|---------------------------|---|
| 0                         | 1 |
| 2                         | 3 |
| 4                         | 5 |
| 6                         | 7 |
| 8                         | 9 |

## NAVAL OCCUPATIONAL TASK ANALYSIS PROGRAM

Page 3

TASK  
RESPONSE  
SHEET

| TASK NUMBER                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|--------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| B - 1                          |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| VERY LITTLE                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BELOW AVERAGE                  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| AVERAGE                        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| ABOVE AVERAGE                  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| VERY MUCH                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| B - 2                          |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| ALL FROM SCHOOL TRAINING       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| MOSTLY FROM SCHOOL TRAINING    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| ABOUT 50/50 FROM SCHOOL & EXPR |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| MOSTLY FROM WORK EXPERIENCE    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| ALL FROM WORK EXPERIENCE       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| NON-SERVICE TRAINING & EXPR    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

## INSTRUCTIONS

1. Use No. 2 pencil only..
2. Do not use a pen or other pencil.
3. Indicate your response with a solid black mark in the space provided.
4. Erase completely all changes.
5. Do not detach forms from the packet.

| TASK NUMBER                    | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|--------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| B - 1                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| VERY LITTLE                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| BELOW AVERAGE                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| AVERAGE                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ABOVE AVERAGE                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| VERY MUCH                      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| B - 2                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ALL FROM SCHOOL TRAINING       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| MOSTLY FROM SCHOOL TRAINING    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ABOUT 50/50 FROM SCHOOL & EXPR |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| MOSTLY FROM WORK EXPERIENCE    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ALL FROM WORK EXPERIENCE       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| NON-SERVICE TRAINING & EXPR    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

## WORKER CHARACTERISTICS OF THE JOB

| ITEM NUMBER   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| BELOW AVERAGE |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| AVERAGE       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| ABOVE AVERAGE |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

## GENERAL QUARTERS AND WATCH DUTIES

| ITEM NUMBER   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| CONDITION I   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| CONDITION III |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| CONDITION IV  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| IN FORT       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

DO NOT MARK  
IN THIS SPACE

|    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|
| 10 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 11 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 12 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 13 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| 14 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| 15 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 |
| 16 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 |
| 17 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 |
| 18 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 |
| 19 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |

TASK  
RESPONSE  
SHEET

## NAVAL OCCUPATIONAL TASK ANALYSIS PROGRAM

| TASK NUMBER                     | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B - 1                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| HOW MUCH TIME IS SPENT ON TASK? |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VERY LITTLE                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| BELOW AVERAGE                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| AVERAGE                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ABOVE AVERAGE                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VERY MUCH                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

| TASK NUMBER                    | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B - 2                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| HOW WAS TASK LEARNED?          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ALL FROM SCHOOL TRAINING       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MOSTLY FROM SCHOOL TRAINING    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ABOUT 50/50 FROM SCHOOL & EXPR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MOSTLY FROM WORK EXPERIENCE    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ALL FROM WORK EXPERIENCE       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| NON-SERVICE TRAINING & EXPR    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

| TASK NUMBER                     | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B - 1                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| HOW MUCH TIME IS SPENT ON TASK? |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VERY LITTLE                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| BELOW AVERAGE                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| AVERAGE                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ABOVE AVERAGE                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VERY MUCH                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

| TASK NUMBER                    | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B - 2                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| HOW WAS TASK LEARNED?          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ALL FROM SCHOOL TRAINING       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MOSTLY FROM SCHOOL TRAINING    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ABOUT 50/50 FROM SCHOOL & EXPR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MOSTLY FROM WORK EXPERIENCE    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ALL FROM WORK EXPERIENCE       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| NON-SERVICE TRAINING & EXPR    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

| E. ITEM NUMBER | ✓ EQUIPMENT, TOOLS, AND SUPPLIES |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
|----------------|----------------------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
|                | 1                                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| OPERATE-USE    |                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| REPAIR         |                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BOTH           |                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

| F. ITEM NUMBER                           | ✓ TYPES OF AIRCRAFT |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------|---------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
|                                          | 1                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| QUALIFIED/WORKING ON NOW                 |                     |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| QUALIFIED/HAVE WORKED ON                 |                     |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| QUALIFIED/HAVE NOT WORKED ON             |                     |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| NOT QUALIFIED/HAVE WORKED ON             |                     |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| NOT QUALIFIED/HAVE NOT WORKED ON/LIKE TO |                     |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

## INSTRUCTIONS

1. Use No. 2 pencil only.
2. Do not use a pen or other pencil.
3. Indicate your response with a solid black mark in the space provided.
4. Erase completely all changes.
5. Do not detach forms from the packet.

| DO NOT MARK IN THIS SPACE |    |
|---------------------------|----|
| 0                         | 10 |
| 1                         | 11 |
| 2                         | 12 |
| 3                         | 13 |
| 4                         | 14 |
| 5                         | 15 |
| 6                         | 16 |
| 7                         | 17 |
| 8                         | 18 |
| 9                         | 19 |

## NAVAL OCCUPATIONAL TASK ANALYSIS PROGRAM

Page 18

TASK  
RESPONSE  
SHEET

| TASK NUMBER                     | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B - 1                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VERY LITTLE                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| BELOW AVERAGE                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| AVERAGE                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ABOVE AVERAGE                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VERY MUCH                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| B - 2                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ALL FROM SCHOOL TRAINING        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MOSTLY FROM SCHOOL TRAINING     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ABOUT 50/50 FROM SCHOOL & EXPER |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MOSTLY FROM WORK EXPERIENCE     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ALL FROM WORK EXPERIENCE        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| NON-SERVICE TRAINING & EXPER    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

1. Use No. 2 pencil only.
2. Do not use a pen or other pencil.
3. Indicate your response with a solid black mark in the space provided.
4. Erase completely all changes.
5. Do not detach forms from the packet.

| TASK NUMBER                     | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B - 1                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VERY LITTLE                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| BELOW AVERAGE                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| AVERAGE                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ABOVE AVERAGE                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VERY MUCH                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| B - 2                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ALL FROM SCHOOL TRAINING        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MOSTLY FROM SCHOOL TRAINING     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ABOUT 50/50 FROM SCHOOL & EXPER |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MOSTLY FROM WORK EXPERIENCE     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ALL FROM WORK EXPERIENCE        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| NON-SERVICE TRAINING & EXPER    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

## HOW WAS TASK LEARNED?

| TASK NUMBER                     | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B - 1                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VERY LITTLE                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| BELOW AVERAGE                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| AVERAGE                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ABOVE AVERAGE                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VERY MUCH                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| B - 2                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ALL FROM SCHOOL TRAINING        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MOSTLY FROM SCHOOL TRAINING     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ABOUT 50/50 FROM SCHOOL & EXPER |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MOSTLY FROM WORK EXPERIENCE     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ALL FROM WORK EXPERIENCE        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| NON-SERVICE TRAINING & EXPER    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

## MISCELLANEOUS DATA

| G. ITEM NUMBER            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| HOW MUCH IS THERE NOW?    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| HOW MUCH SHOULD THERE BE? |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

DO NOT MARK  
IN THIS SPACE

| DO NOT MARK<br>IN THIS SPACE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
|                              |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |



\*\*\*\*\* STUDY IDENTIFICATION IS AGILL771 NUMBER OF CASES IS 727.

[illegible]

STUDY AUGALL771 HIERARCHICAL DIAGRAM OF THE DEPENDENCY RELATION

[illegible]

Group

25-10

## Attachment Ab2

PRINT VAR IN TASK SEQUENCE

| IBEN CASE | ACTIVITY   | RILT RILT P | SSAN        | TR MD S H PNEC SHLC P S N S OUT 4                                                                                                                                                                                                                               | 10 PHO RE                    | UJI | CLS | MRK |
|-----------|------------|-------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----|-----|-----|
| CASE NO   | CODE       | PNEC SHFC G | CU CU A C   | 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 | 10 PHO RE                    | UJI | CLS | MRK |
| 610 0106  | 1447000000 | 0000 0000   | 3 254767104 | 00 06 1 1 2400 0000                                                                                                                                                                                                                                             | 1 8 0 1 06 2 13 2 3 01 00 71 |     |     |     |
| 617 1200  | 0000000000 | 0000 0000   | 6 472460818 | 00 06 1 1 7412 7424                                                                                                                                                                                                                                             | 3 5 0 1 24 2 15 2 1 06 20 10 |     |     |     |
| 618 0471  | 0000000000 | 0000 0000   | 3 031460506 | 01 01 1 1 0000 0000                                                                                                                                                                                                                                             | 7 1 0 4 00 3 12 2 2 02 00 01 |     |     |     |
| 619 0630  | 0017001001 | 0000 0000   | 4 401602500 | 00 04 1 1 0000 0000                                                                                                                                                                                                                                             | 8 8 0 2 20 2 12 2 1 00 16 00 |     |     |     |
| 620 0631  | 0017001001 | 0000 0000   | 7 449000210 | 00 01 1 1 7424 9502                                                                                                                                                                                                                                             | 5 5 1 1 18 3 12 2 1 12 22 06 |     |     |     |
| 621 2024  | 0000000000 | 7412 0000   | 7 457000000 | 01 11 1 1 0000 9508                                                                                                                                                                                                                                             | 8 8 1 1 18 2 12 2 2 02 00 10 |     |     |     |
| 622 0331  | 0000000000 | 0000 0000   | 5 313000000 | 00 02 1 1 0000 0000                                                                                                                                                                                                                                             | 1 1 0 1 00 2 12 2 1 02 16 01 |     |     |     |
| 623 2123  | 0000000000 | 7414 0000   | 7 064000000 | 01 03 1 1 7412 0000                                                                                                                                                                                                                                             | 3 8 2 1 03 1 14 2 2 03 57 10 |     |     |     |
| 624 0054  | 0000000000 | 0000 0000   | 4 533444000 | 00 04 1 1 0000 0000                                                                                                                                                                                                                                             | 1 1 0 1 00 3 16 2 2 10 00 00 |     |     |     |
| 625 1254  | 0000000000 | 0000 0000   | 4 050405145 | 00 05 1 1 0000 0000                                                                                                                                                                                                                                             | 8 8 0 0 30 3 12 2 2 01 00 00 |     |     |     |
| 626 0406  | 0017001000 | 0000 0000   | 4 267000000 | 02 01 1 1 0000 0000                                                                                                                                                                                                                                             | 8 8 0 2 12 2 12 2 2 04 00 00 |     |     |     |
| 627 0063  | 0000000000 | 0000 0000   | 6 171300000 | 01 00 1 1 7424 7414                                                                                                                                                                                                                                             | 5 5 0 1 00 2 12 2 1 00 07 00 |     |     |     |
| 628 0000  | 0000000000 | 7424 9502   | 6 273170204 | 01 04 1 1 7424 9502                                                                                                                                                                                                                                             | 5 5 0 1 34 1 08 2 2 12 07 00 |     |     |     |
| 629 0408  | 0017001000 | 0000 0000   | 4 756745010 | 10 09 1 1 0000 0000                                                                                                                                                                                                                                             | 8 8 0 1 00 3 16 2 2 10 00 00 |     |     |     |
| 630 0635  | 0000000000 | 0000 0000   | 6 063500000 | 02 00 1 1 7412 7424                                                                                                                                                                                                                                             | 3 5 6 1 24 2 11 2 1 06 00 01 |     |     |     |
| 631 0072  | 0000000000 | 0000 0000   | 4 067300000 | 00 10 1 1 0000 0000                                                                                                                                                                                                                                             | 1 8 1 1 10 2 16 2 2 01 00 00 |     |     |     |
| 632 2152  | 0000000000 | 0000 0000   | 3 385546000 | 00 02 1 1 7414 0000                                                                                                                                                                                                                                             | 1 8 6 2 07 2 13 2 2 00 09 00 |     |     |     |
| 633 2275  | 0000000000 | 0000 0000   | 3 231701710 | 00 04 1 1 0000 0000                                                                                                                                                                                                                                             | 8 8 0 2 34 2 12 2 2 00 00 00 |     |     |     |
| 634 0176  | 0000000000 | 7422 0000   | 6 403443471 | 01 09 1 1 7422 7424                                                                                                                                                                                                                                             | 8 5 1 1 24 1 12 2 1 18 36 01 |     |     |     |
| 635 2125  | 0000000000 | 7422 0000   | 5 570500249 | 00 08 1 1 7423 0000                                                                                                                                                                                                                                             | 7 4 0 2 36 2 12 2 1 02 04 01 |     |     |     |
| 636 2166  | 0000000000 | 0000 0000   | 3 155426715 | 00 03 1 1 7400 0000                                                                                                                                                                                                                                             | 1 1 0 1 03 1 12 2 2 01 00 01 |     |     |     |
| 637 2277  | 0000000000 | 0000 0000   | 3 276504184 | 00 02 2 1 0000 0000                                                                                                                                                                                                                                             | 1 8 0 1 05 2 12 2 3 00 00 00 |     |     |     |
| 638 0405  | 0000000000 | 7426 0000   | 9 444400200 | 00 11 1 1 0000 0000                                                                                                                                                                                                                                             | 8 8 4 2 00 2 12 2 1 03 00 10 |     |     |     |
| 639 0064  | 0000000000 | 0000 0000   | 9 267200000 | 02 01 1 1 0000 0000                                                                                                                                                                                                                                             | 3 3 9 1 30 2 14 2 1 06 00 00 |     |     |     |
| 640 1370  | 0000000000 | 7412 7414   | 9 513501000 | 02 00 1 2 7412 7414                                                                                                                                                                                                                                             | 3 5 9 1 00 2 12 2 1 39 01 10 |     |     |     |
| 641 1324  | 0000000000 | 7412 0000   | 8 458400000 | 01 01 1 1 0000 9501                                                                                                                                                                                                                                             | 8 5 4 0 00 3 12 2 1 00 00 14 |     |     |     |
| 642 2073  | 0000000000 | 0000 0000   | 9 505700200 | 00 10 1 1 0000 9500                                                                                                                                                                                                                                             | 8 5 9 1 00 1 12 2 1 02 06 12 |     |     |     |
| 643 0508  | 0000000000 | 0000 0000   | 9 336700000 | 01 02 1 1 0000 0000                                                                                                                                                                                                                                             | 8 8 9 1 15 3 12 2 1 00 00 01 |     |     |     |
| 644 0066  | 0000000000 | 9502 0000   | 7 385240000 | 03 11 1 1 7412 9502                                                                                                                                                                                                                                             | 3 8 1 1 00 1 12 2 2 02 04 10 |     |     |     |
| 645 0075  | 0000000000 | 9502 0000   | 9 016247354 | 10 07 1 1 0000 9500                                                                                                                                                                                                                                             | 3 5 9 1 54 2 12 2 3 00 06 13 |     |     |     |
| 646 0096  | 0000000000 | 9502 0000   | 8 132200000 | 00 11 1 1 7412 9502                                                                                                                                                                                                                                             | 1 5 9 1 00 2 12 2 3 02 06 04 |     |     |     |
| 647 0177  | 0000000000 | 0000 0000   | 9 474200000 | 10 00 1 1 0000 9500                                                                                                                                                                                                                                             | 3 5 1 1 99 2 12 2 2 39 00 20 |     |     |     |
| 648 2275  | 0000000000 | 0000 0000   | 9 140200000 | 01 04 1 1 0000 9500                                                                                                                                                                                                                                             | 3 8 9 3 20 2 12 2 3 12 20 10 |     |     |     |
| 649 0650  | 0000000000 | 7412 9501   | 8 530100000 | 00 05 1 1 7412 9501                                                                                                                                                                                                                                             | 3 5 2 0 00 1 12 2 1 00 00 20 |     |     |     |
| 650 0080  | 0000000000 | 9502 0000   | 7 111202430 | 01 10 1 1 0000 9502                                                                                                                                                                                                                                             | 1 5 4 1 00 1 12 2 2 01 01 10 |     |     |     |
| 651 0087  | 0000000000 | 9506 0000   | 7 124300000 | 02 00 1 1 0000 9506                                                                                                                                                                                                                                             | 3 5 1 1 00 1 16 2 1 12 03 20 |     |     |     |
| 652 0401  | 0000000000 | 7412 0000   | 8 493700243 | 03 01 1 1 7412 9401                                                                                                                                                                                                                                             | 3 5 2 1 00 1 15 2 2 06 50 10 |     |     |     |
| 653 1205  | 0000000000 | 0000 0000   | 7 230000112 | 01 30 1 1 0000 0000                                                                                                                                                                                                                                             | 3 8 2 2 00 2 12 2 1 04 21 00 |     |     |     |
| 654 1247  | 0000000000 | 0000 0000   | 1 552400249 | 01 05 1 1 0000 0000                                                                                                                                                                                                                                             | 3 9 0 0 00 2 14 2 2 01 25 15 |     |     |     |
| 655 1249  | 0000000000 | 0000 0000   | 8 136320000 | 01 10 1 1 0000 0000                                                                                                                                                                                                                                             | 3 8 2 0 00 2 12 2 1 06 06 20 |     |     |     |
| 656 1297  | 0000000000 | 0000 0000   | 8 013247335 | 02 00 1 1 0000 0000                                                                                                                                                                                                                                             | 3 8 1 0 00 3 12 2 2 01 04 02 |     |     |     |
| 657 1244  | 0000000000 | 0000 0000   | 5 511400000 | 00 05 1 1 0000 0000                                                                                                                                                                                                                                             | 8 8 0 1 03 3 16 2 2 01 00 01 |     |     |     |
| 658 0403  | 0000000000 | 0000 0000   | 6 003247342 | 02 04 1 1 7412 0000                                                                                                                                                                                                                                             | 3 8 1 2 06 2 13 2 3 03 00 02 |     |     |     |
| 659 1296  | 0000000000 | 0000 0000   | 6 158300000 | 00 09 1 1 7412 7424                                                                                                                                                                                                                                             | 3 5 1 1 04 2 12 2 1 01 06 01 |     |     |     |
| 660 1349  | 0000000000 | 7412 0000   | 6 444000000 | 00 03 1 1 7412 7414                                                                                                                                                                                                                                             | 3 5 1 3 03 2 13 2 1 12 10 01 |     |     |     |
| 661 1250  | 0000000000 | 7422 7412   | 6 224500298 | 00 01 1 1 7422 7422                                                                                                                                                                                                                                             | 3 3 1 1 36 1 12 2 1 02 01 04 |     |     |     |
| 662 0434  | 0000000000 | 0000 0000   | 7 557400000 | 03 00 1 1 7426 7412                                                                                                                                                                                                                                             | 3 1 1 1 63 2 12 2 1 06 00 01 |     |     |     |
| 663 0405  | 0000000000 | 0000 0000   | 9 139164000 | 07 10 1 1 7412 7414                                                                                                                                                                                                                                             | 3 5 0 1 49 3 13 2 1 03 00 14 |     |     |     |
| 664 0733  | 0000000000 | 0000 0000   | 9 046222727 | 01 06 1 1 0000 9508                                                                                                                                                                                                                                             | 8 5 2 1 44 3 04 2 3 03 00 20 |     |     |     |
| 665 0402  | 0000000000 | 0000 0000   | 6 532360000 | 01 00 1 1 7414 0000                                                                                                                                                                                                                                             | 3 8 0 1 24 2 12 2 1 02 00 10 |     |     |     |
| 666 1295  | 0000000000 | 0000 0000   | 9 037200000 | 01 04 1 1 0000 0000                                                                                                                                                                                                                                             | 3 3 9 1 16 2 12 2 1 12 12 09 |     |     |     |
| 667 1283  | 0000000000 | 0000 0000   | 6 426000000 | 01 10 1 1 0000 0000                                                                                                                                                                                                                                             | 8 4 0 1 00 2 15 2 2 03 06 02 |     |     |     |
| 668 1244  | 0000000000 | 0000 0000   | 7 463660000 | 00 02 1 1 0000 0000                                                                                                                                                                                                                                             | 3 8 1 1 00 2 12 2 1 06 00 32 |     |     |     |
| 669 1254  | 0000000000 | 7412 0000   | 7 042400227 | 00 11 1 1 0000 7414                                                                                                                                                                                                                                             | 3 5 1 2 05 2 14 2 2 01 02 00 |     |     |     |
| 670 1244  | 0000000000 | 0000 0000   | 6 243000000 | 01 02 1 1 0000 0000                                                                                                                                                                                                                                             | 8 8 0 4 12 2 12 2 2 03 01 01 |     |     |     |
| 671 2150  | 0000000000 | 7424 0000   | 5 014347004 | 00 07 1 1 7424 0000                                                                                                                                                                                                                                             | 5 8 1 2 03 2 12 2 3 00 00 00 |     |     |     |
| 672 0472  | 0000000000 | 7426 0000   | 5 505500000 | 01 06 1 1 7426 7424                                                                                                                                                                                                                                             | 8 5 0 1 35 2 11 2 1 10 10 01 |     |     |     |
| 673 0470  | 0000000000 | 7426 0000   | 5 505500000 | 00 06 1 1 7426 0000                                                                                                                                                                                                                                             | 7 8 0 1 00 1 13 2 1 04 00 01 |     |     |     |
| 674 0525  | 0000000000 | 7422 0000   | 5 262620000 | 00 10 1 1 7422 0000                                                                                                                                                                                                                                             | 7 9 0 3 18 3 16 2 3 03 45 01 |     |     |     |
| 675 0270  | 0000000000 | 7423 0000   | 4 010000000 | 00 08 1 1 7423 0000                                                                                                                                                                                                                                             | 7 8 0 3 64 1 12 2 2 18 36 05 |     |     |     |

ORDERED BY DUTY IDENTIFIERS.

| D-TSK | DUTY TITLE                                              |
|-------|---------------------------------------------------------|
| A     | DIRECTING AND IMPLEMENTING                              |
| B.    | ORGANIZING, PLANNING AND SCHEDULING                     |
| C     | INSPECTING AND EVALUATING                               |
| D     | TRAINING                                                |
| E     | ADMINISTRATIVE DUTIES                                   |
| F     | SUPPLY DUTIES                                           |
| G     | CONSTRUCTING AND MANUFACTURING                          |
| J     | MECHANICAL MAINTENANCE                                  |
| K     | MAINTENANCE SUPPORT/SERVICING                           |
| L     | USE/OPERATE MACHINES AND OTHER EQUIPMENT/DEVICES/TOOLS  |
| N     | SECURITY FUNCTIONS                                      |
| O     | GENERAL MILITARY DUTIES                                 |
| P     | MISCELLANEOUS                                           |
| Q     | ANALYSIS AND FORECASTING                                |
| R     | CODING AND PLOTTING                                     |
| S     | OBSERVATION                                             |
| T     | METHODOLOGY                                             |
| U     | OCEANOGRAPHY AND CLIMATOLOGY                            |
| V     | COMPUTER PROGRAMMING AND PERIPHERAL EQUIPMENT OPERATION |

(NOTE: This is not a separate computer printout.)

## Attachment Ac2

AC DUTY TASK TITLES AGALL771 ACTIVITIES PAGE

## FOLLOWING IS A LIST IN ALPHA-NUMERIC ORDER OF ALL TASKS

A--- DIPECTING AND IMPLEMENTING

A 1 INCORPORATE EQUIPMENT MODIFICATIONS

A 2 CORRELATE DATA WITH JOINT TYPHOON WARNING CENTER

A 3 ORGANIZE SPECIAL WEATHER ENVIRON. PREDICTION SERVICE OPS.

A 4 DEVELOP SPECIAL HATHYTHROGRAPH CODES

A 5 QUALIFY/EQUALIFY COMPUTER OPERATORS

A 6 SET UP SPECIAL OPERATIONAL PROJECTS

A 7 ASSIGN PERSONNEL FOR DEPLOYMENT

A 8 PREPARE JOB ORDERS FOR CIVILIAN PAY

A 9 CHECK CIVILIAN PAYROLLS FOR ACCURACY

A 10 COORDINATE TUITION AID PROGRAM

A 11 APPROVE/DISAPPROVE SPECIAL REQUESTS

A 12 CONDUCT PHYSICAL FITNESS PROGRAMS

A 13 NOMINATE PERSONNEL FOR SPECIAL RECOGNITION

A 14 ASSIST COLLATERAL DUTIES

A 15 PARTICIPATE ON JOB QUALIFICATION BOARDS

A 16 CONDUCT REPORTING BOARD INTERVIEWS

A 17 SUPERVISE CIVILIAN PERSONNEL

A 18 PREPARE WATCH BILLS

A 19 PREPARE TECHNICAL MANUALS/PUBLICATIONS

A 20 PREPARE LOCAL DIRECTIVES

A 21 ANALYZE ACTIVITIES OF BUDGET AUTHORIZATIONS

A 22 CONTROL OPERATING EXPENSES

A 23 PREPARE ACCOUNTING BUDGETS

A 24 ASSIGN MILITARY DUTIES

A 25 CONDUCT ZONE INSPECTIONS

B--- ORGANIZING, PLANNING AND SCHEDULING

B 1 SUPERVISE REPAIR OF TIELINE EQUIPMENT

B 2 EXCHANGE WEATHER INFO WITH INTERNATIONAL ICE STATIONS

B 3 CHECK CHARTS FOR COMPLETENESS

B 4 ORIENT MYSELF PRIOR TO ASSUMING WATCH

B 5 CHECK SHIPS FORECAST FOLDERS FOR ACCURACY

B 6 VERIFY FORECASTS

B 7 EXCHANGE ENVIRONMENTAL DATA WITH COMMERCIAL FISHING INDUSTRY.

B 8 CONDUCT INTELLIGENCE BRIEFINGS

B 9 GIVE WEATHER BRIEFS

B 10 LEPT CIVIL DEFENSE OF SEVERE WEATHER

B 11 SCHEDULE PERSONNEL FOR TRAINING

B 12 DELIVER SEVERE WEATHER WARNINGS

B 13 CHECK ACCURACY OF WEATHER RECONNAISSANCE DATA CARDS

B 14 REVIEW RADAR PICTURES

B 15 SET UP TRAVEL ADVISORIES

B 16 MONITOR OPERATION OF PERIPHERAL COMPUTER EQUIPMENT

B 17 COORDINATE ASSIGNMENTS WITH DETAILER

B 18 PARTICIPATE ON INTERVIEW BOARDS

B 19 ATTEND FLIGHT/AUDIT BOARD

B 20 ATTEND ADVISORY BOARD MEETINGS

B 21 ATTEND RECREATION AND WELFARE COMMITTEE MEETINGS

B 22 ATTEND MINORITY AFFAIRS COMMITTEE MEETINGS

B 23 ATTEND DISASTER CONTROL MEETINGS

B 24 MAINTAIN LIAISON WITH OTHER WEATHER AGENCIES

B 25 MAINTAIN LIAISON WITH CIVILIAN CONTRACTORS

B 26 ACT AS LIAISON FOR PROJECT TRANSITION

B 27 PREPARE ENLISTED PERFORMANCE EVALUATIONS

B 28 MAKE ARRANGEMENTS FOR CEREMONIES/INSPECTIONS

B 29 MAINTAIN LEAVE SCHEDULES

B 30 PREPARE WATCH BILLS

B 31 INITIATE WORK REQUESTS

B 32 PREPARE SEA-OPERATIONS REPORTS

B 33 GIVE WEATHER LECTURES AT LOCAL SCHOOLS

B 34 GIVE WEATHER ORIENTATION LECTURES TO STUDENT OFFICERS

C--- INSPECTING AND EVALUATING

C 1 CHECK FAX PRODUCTS FOR ACCURACY

C 2 PREPARE PRE-OPERATIONAL INSPECTION ON VEHICLES/EQUIPMENT

C 3 CHECK BAROMETERS FOR ACCURACY

C 4 CHECK EQUIPMENT GEARS FOR EXCESSIVE WEAR

C 5 VISUALLY INSPECT ALL PARTS OF EQUIPMENT

C 6 EVALUATE SHARPS DATA

C 7 PREFLIGHT AIRCRAFT METEOROLOGICAL GEAR

C 8 POST FLIGHT AIRCRAFT

C 9 AUDIT COFFEE MESS RECORDS

C 10 INSPECT SPACES FOR CLEANLINESS

C 11 HOLD SECURITY INSPECTIONS OF ASSIGNED SPACES

D--- TRAINING

D 1 TURN IN TRAINING DEVICES FOR PREVENTIVE MAINTENANCE

D 2 RESEARCH SHIPS RECOGNITION FEATURES

D 3 SUPERVISE TRAINING PROGRAMS

D 4 WRITE COURSES OF STUDY

D 5 WRITE CURRICULUM OUTLINES

D 6 WRITE LESSON GUIDES

D 7 PREPARE TRAINING LECTURES

D 8 RECONSTRUCT TRAINING DEVICES

D 9 PRODUCE LESSION GUIDES

D 10 ORDER TRAINING FILMS

D 12 GIVE TRAINING LECTURES

D 13 MAKE UP ON-THE-JOB TRAINING CHECK-OFF SHEETS

D 14 ATTEND TRAINING LECTURES

D 15 CONDUCT ON-THE-JOB-TRAINING

D 16 MAINTAIN THE TRAINING FILM LIBRARY

D 17 MAINTAIN TRAINING RECORDS

## Attachment Ad1

Case Numbers

GROUP NUMBER = 10, ORDERED FROM 618 TO 639.

AGALL771 GRP00101 PAGE

AG04 AG TASK JUDECS FOR 10,17,19,20,22,25,53,67,70,106,109

N

DUTY JOB DESCRIPTION-----CASES= 727-----TASKS= 483-----DUTIES=19-----MEMBERS= 52  
SELECTED FROM THE HIERARCHY POSITIONS 618 THROUGH 639-----FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.

| COUNT OF DUTIES OR TASKS LISTED.....                           |                                                        |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------|--------------------------------------------------------|--|--|--|--|--|--|--|--|
| CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS... |                                                        |  |  |  |  |  |  |  |  |
| AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....                 |                                                        |  |  |  |  |  |  |  |  |
| ORDERED BY...PERCENT OF MEMBERS PERFORMING.....                |                                                        |  |  |  |  |  |  |  |  |
| D-TSK                                                          | DUTY TITLE                                             |  |  |  |  |  |  |  |  |
| E                                                              | ADMINISTRATIVE DUTIES                                  |  |  |  |  |  |  |  |  |
| B                                                              | ORGANIZING, PLANNING AND SCHEDULING                    |  |  |  |  |  |  |  |  |
| P                                                              | MISCELLANEOUS                                          |  |  |  |  |  |  |  |  |
| → A                                                            | DIRECTING AND IMPLEMENTING                             |  |  |  |  |  |  |  |  |
|                                                                | INSPECTING AND EVALUATING                              |  |  |  |  |  |  |  |  |
| F                                                              | SUPPLY DUTIES                                          |  |  |  |  |  |  |  |  |
| N                                                              | SECURITY FUNCTIONS                                     |  |  |  |  |  |  |  |  |
| U                                                              | GENERAL MILITARY DUTIES                                |  |  |  |  |  |  |  |  |
| D                                                              | TRAINING                                               |  |  |  |  |  |  |  |  |
| L                                                              | OPERATE MACHINES AND OTHER EQUIPMENT/DEVICES/TOOLS     |  |  |  |  |  |  |  |  |
| K                                                              | MAINTENANCE SUPPORT/SERVICING                          |  |  |  |  |  |  |  |  |
| R                                                              | CODING AND PLOTTING                                    |  |  |  |  |  |  |  |  |
| U                                                              | OCEANOGRAPHY AND CLIMATOLOGY                           |  |  |  |  |  |  |  |  |
| V                                                              | COMPUTER PROGRAMING AND PERIPHERAL EQUIPMENT OPERATION |  |  |  |  |  |  |  |  |
| Q                                                              | ANALYSIS AND FORECASTING                               |  |  |  |  |  |  |  |  |
| G                                                              | CONSTRUCTING AND MANUFACTURING                         |  |  |  |  |  |  |  |  |
| S                                                              | OBSERVATION                                            |  |  |  |  |  |  |  |  |
| T                                                              | METEOROLOGY                                            |  |  |  |  |  |  |  |  |
| J                                                              | MECHANICAL MAINTENANCE                                 |  |  |  |  |  |  |  |  |



## Attachment Ad2

GROUP NUMBER = 10, ORDERED FROM 618 TO 669

AGALL771 GRP00101 PAGE

AG04 AG TASK JOURNALS FOR 10,17,19,20,22,25,53,67,70,108,109

TASK JOB DESCRIPTION-----CASES= 727-----TASKS= 483-----DUTIES=19-----MEMBERS= 52  
SELECTED FROM THE HIERARCHY POSITIONS 618 THROUGH 669-----FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.

| COUNT OF DUTIES OR TASKS LISTED.....                          |                                          |       |      |      |      |      |      |      |    |
|---------------------------------------------------------------|------------------------------------------|-------|------|------|------|------|------|------|----|
| CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.. |                                          |       |      |      |      |      |      |      |    |
| AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....                |                                          |       |      |      |      |      |      |      |    |
| AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING..            |                                          |       |      |      |      |      |      |      |    |
| ORDERED BY..PERCENT OF MEMBERS PERFORMING.....                |                                          |       |      |      |      |      |      |      |    |
| D-TASK                                                        | TASK TITLE                               | %     | %    | %    | %    | %    | %    | %    | N  |
| ***                                                           |                                          |       |      |      |      |      |      |      |    |
| E 76                                                          | FILE CORRESPONDENCE                      | 73.00 | 3.74 | 2.74 | 2.74 | 2.74 | 2.74 | 2.74 | 5  |
| E 38                                                          | PROOFREAD REPORTS/CORRESPONDENCE         | 71.15 | 4.54 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 5  |
| E 73                                                          | DRAFT CORRESPONDENCE                     | 59.61 | 3.33 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 5  |
| B 21                                                          | PREPARE ENLISTED PERFORMANCE EVALUATIONS | 55.77 | 3.65 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 5  |
| B 31                                                          | INITIAL WORK REQUESTS                    | 50.20 | 3.14 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 5  |
| E 77                                                          | TYPE FORMS                               | 50.20 | 3.14 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 5  |
| E 30                                                          | PREPARE RECURRING REPORTS                | 48.08 | 3.76 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 5  |
| E 42                                                          | READ DAILY MESSAGE TRAFFIC               | 46.15 | 3.52 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 5  |
| E 41                                                          | APPROVE/DISAPPROVE SPECIAL REQUESTS      | 44.23 | 2.05 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 5  |
| E 22                                                          | RECEIVE TRAFFIC CALLS                    | 44.23 | 2.32 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 10 |
| E 74                                                          | PREPARE PACKAGES FOR MAILING             | 44.23 | 2.87 | 1.27 | 1.27 | 1.27 | 1.27 | 1.27 | 10 |
| O 75                                                          | STANDARD PERSONNEL INSPECTIONS           | 42.30 | 3.77 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 10 |
| E 69                                                          | MAINTAIN DIRECTIVES                      | 40.38 | 3.03 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 10 |
| E 71                                                          | ROUTE INCOMING CORRESPONDENCE            | 40.38 | 3.45 | 1.39 | 1.39 | 1.39 | 1.39 | 1.39 | 15 |
| E 43                                                          | REQUEST REQUIRED PUBLICATIONS            | 39.48 | 2.11 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 15 |
| E 70                                                          | MAINTAIN PUBLICATIONS                    | 38.46 | 2.52 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 15 |
| C 10                                                          | INSPECT SPACES FOR CLEANLINESS           | 38.46 | 3.06 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 15 |
| E 28                                                          | MAINTAIN BULLETIN BOARDS                 | 36.54 | 1.70 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 15 |
| F 91                                                          | INVENTORY SUPPLIES                       | 36.54 | 3.41 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 15 |
| E 12                                                          | REQUISITION SUPPLIES                     | 36.54 | 2.22 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 20 |
| N 30                                                          | DESTROY CLASSIFIED MATERIAL              | 34.61 | 3.05 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 20 |
| --> A 13                                                      |                                          |       |      |      |      |      |      |      |    |
| --> A 14                                                      |                                          |       |      |      |      |      |      |      |    |
| A 13                                                          | ASSIGN PERSONNEL FOR SPECIAL RECOGNITION | 34.61 | 1.70 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 25 |
| A 14                                                          | ASSIGN COLLATERAL DUTIES                 | 34.61 | 1.80 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 25 |
| E 45                                                          | PREPARE MESSAGES                         | 34.61 | 3.96 | 1.37 | 1.37 | 1.37 | 1.37 | 1.37 | 25 |
| E 68                                                          | MAINTAIN TECHNICAL PUBLICATIONS LIBRARY  | 34.61 | 2.14 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 25 |
| E 75                                                          | TYPE NAVAL CORRESPONDENCE                | 34.61 | 3.03 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 25 |
| P 35                                                          | ADVISE TRAINING PROGRAMS                 | 32.69 | 4.55 | 1.49 | 1.49 | 1.49 | 1.49 | 1.49 | 30 |
| B 20                                                          | ATTEND ADVISORY BOARD MEETINGS           | 32.69 | 2.67 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 30 |
| E 33                                                          | MAINTAIN ORGANIZATION CHARTS             | 32.69 | 2.99 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 30 |
| E 79                                                          | PRINT MAILING LABELS                     | 32.69 | 3.25 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 30 |
| F 71                                                          | INVENTORY EQUIPMENT                      | 32.69 | 2.22 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 30 |
| F 11                                                          | STOCK/BREAK-DOWN SUPPLIES                | 32.69 | 4.90 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 35 |
| E 32                                                          | SEND OFF PRACTICAL FACTORS               | 30.77 | 1.73 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 35 |
| E 79                                                          | MAIL OFFICIAL LETTERS/PACKAGES           | 30.77 | 3.69 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 35 |

Attachment Ad2

| GROUP NUMBER = | 10, ORDERED FROM                                     | 618 TO | 669  | AGALL 771 | %     | % | % | N  |
|----------------|------------------------------------------------------|--------|------|-----------|-------|---|---|----|
| D-TASK         | TASK TITLE                                           | ***    | %    | %         | %     | % | % | N  |
| H 24           | MAINTAIN LIAISON WITH OTHER WEATHER AGENCIES         | 28.84  | 2.22 | 0.64      | 45.96 |   |   |    |
| E 31           | PREPARE/MAINTAIN WATCH QUARTER AND STATION BILL      | 28.84  | 2.09 | 0.58      | 45.54 |   |   |    |
| O 1            | PARTICIPATE IN PHYSICAL FITNESS PROGRAMS             | 28.84  | 1.31 | 0.38      | 46.92 |   |   |    |
| N 4            | PREPARE CLASSIFIED MATERIAL FOR DESTRUCTION          | 23.84  | 2.92 | 2.36      | 47.75 |   |   | 40 |
| P 24           | PICK-UP/DELIVER MESSAGES                             | 29.84  | 3.97 | 1.14      | 48.90 |   |   |    |
| E 61           | MAINTAIN TICKLER FILES                               | 28.84  | 2.47 | 0.71      | 49.61 |   |   |    |
| O 14           | ATTEND TRAINING LECTURES                             | 28.84  | 4.70 | 1.36      | 50.96 |   |   |    |
| C 11           | HOLD SECURITY INSPECTIONS OF ASSIGNED SPACES         | 28.84  | 3.06 | 0.80      | 51.84 |   |   |    |
| → A 13         | SUPERVISE CIVILIAN PERSONNEL                         | 26.82  | 2.52 | 0.78      | 52.63 |   |   | 45 |
| P 27           | CONDUCT TOURS OF WEATHER OFFICE SPACES               | 26.82  | 1.43 | 0.38      | 53.01 |   |   |    |
| O 17           | COORDINATE ASSIGNMENTS WITH DETAILER                 | 25.00  | 2.42 | 0.60      | 53.62 |   |   |    |
| A 16           | CONDUCT REPORTING ABOARD INTERVIEWS                  | 25.00  | 2.20 | 0.55      | 54.16 |   |   |    |
| E 34           | PREPARE REGAL BILLS                                  | 25.00  | 1.53 | 0.38      | 54.54 |   |   |    |
| E 43           | TYPE NAVAL MESSAGES                                  | 25.00  | 2.74 | 0.68      | 55.23 |   |   | 50 |
| E 36           | MAINTAIN DIVISION OFFICERS NOTEBOOK                  | 25.00  | 1.97 | 0.49      | 55.72 |   |   |    |
| → A 20         | PREPARE LOCAL DIRECTIVES                             | 25.00  | 1.09 | 0.47      | 56.19 |   |   |    |
| O 11           | SCHEDULE PERSONNEL FOR TRAINING                      | 25.00  | 1.97 | 0.49      | 56.68 |   |   |    |
| F 14           | MAKE SERV-MART RUNS                                  | 25.00  | 2.73 | 0.68      | 57.35 |   |   |    |
| → A 24         | ASSIGN MILITARY DUTIES                               | 23.32  | 2.42 | 0.62      | 57.95 |   |   | 55 |
| E 13           | PARTICIPATE ON INTERVIEW BOARDS                      | 23.32  | 2.04 | 0.47      | 58.46 |   |   |    |
| B 3            | PREPARE WATCH BILLS                                  | 23.32  | 2.54 | 0.47      | 58.92 |   |   |    |
| N 1            | INVENTORY CLASSIFIED MATERIAL                        | 23.32  | 2.98 | 0.68      | 59.60 |   |   |    |
| E 6            | MAINTAIN READ AND INITIAL BOARDS                     | 23.32  | 2.18 | 0.50      | 60.13 |   |   |    |
| D 15           | CONDUCT ON-THE-JOB TRAINING                          | 23.32  | 2.44 | 0.58      | 61.54 |   |   | 60 |
| F 1            | ISSUE SUPPLIES                                       | 23.32  | 3.56 | 0.59      | 61.55 |   |   |    |
| H 21           | ATTEND RECREATION AND WELFARE COMMITTEE MEETINGS     | 21.15  | 4.60 | 0.97      | 62.52 |   |   |    |
| E 27           | PREPARE SITUATION REPORTS                            | 21.15  | 4.24 | 0.90      | 63.42 |   |   |    |
| B 2            | MAKE ARRANGEMENTS FOR CEREMONIES/INSPECTIONS         | 21.15  | 3.27 | 0.69      | 64.11 |   |   |    |
| E 2            | SECURE PUBLICATIONS FOR DISTRIBUTION                 | 21.15  | 3.32 | 0.72      | 64.83 |   |   | 65 |
| F 25           | SCREEN SUPPLY REQUESTS                               | 21.15  | 2.36 | 0.90      | 65.33 |   |   |    |
| O 17           | MAINTAIN TRAINING RECORDS                            | 21.15  | 2.04 | 0.56      | 65.89 |   |   |    |
| E 81           | ORDER CORRESPONDENCE COURSES                         | 21.15  | 1.34 | 0.28      | 66.17 |   |   |    |
| P 21           | TURN IN OFFICE EQUIPMENT FOR REPAIR                  | 19.23  | 1.78 | 0.32      | 66.44 |   |   |    |
| C 3            | SAVILL CODEL MESSAGE RECORDS                         | 19.23  | 1.48 | 0.46      | 67.32 |   |   | 70 |
| N 2            | REGISTER MAIL                                        | 19.23  | 3.06 | 0.70      | 67.56 |   |   |    |
| B 2            | MAINTAIN LEAVE SCHEDULES                             | 19.23  | 1.73 | 0.33      | 67.89 |   |   |    |
| E 6            | MAINTAIN LOG BOOKS                                   | 19.23  | 1.69 | 0.36      | 68.29 |   |   |    |
| D 12           | GIVE TRAINING LECTURES                               | 19.23  | 1.69 | 0.32      | 68.57 |   |   |    |
| E 13           | ADVISE PERSONNEL ON PROCEDURES FOR ORDERING SUPPLIES | 19.23  | 1.22 | 0.25      | 68.82 |   |   | 75 |
| P 3            | MAINTAIN OFFICE FURNITURE                            | 19.23  | 1.91 | 0.37      | 69.28 |   |   |    |
| N 55           | SECURE ASSIGNED SPACES                               | 19.23  | 2.41 | 0.46      | 69.74 |   |   |    |
| O 1            | SECURE INSPECTING PARTIES                            | 19.23  | 1.94 | 0.37      | 70.12 |   |   |    |
| F 16           | PACKAGE MAPS AND CHARTS FOR STORAGE                  | 17.30  | 3.54 | 0.61      | 70.73 |   |   |    |
| E 14           | MAINTAIN CLIMATOLOGICAL RECORDS                      | 17.30  | 3.34 | 0.58      | 71.32 |   |   | 80 |
| A 12           | CONDUCT PHYSICAL FITNESS PROGRAMS                    | 17.30  | 1.77 | 0.29      | 71.60 |   |   |    |
| → E 5          | VERIFY SERVICE RECORDS                               | 17.30  | 1.44 | 0.25      | 71.84 |   |   |    |
|                | thru                                                 |        |      |           |       |   |   |    |
|                | 1. 92                                                |        |      |           |       |   |   |    |





## Attachment Ad4

| GROUP NUMBER = 10, ORDERED FROM 618 TO 669                                                                   |  | AGALL771                                                      |  | GRP00103 |  | PAGE |  |
|--------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------|--|----------|--|------|--|
| AG04 AG TASK JUDECS FOR 10,17,19,20,22,25,53,67,70,108,109                                                   |  |                                                               |  |          |  |      |  |
| TASK JOB DESCRIPTION-----CASES= 727-----TASKS= 423-----DUTIES=19-----MEMBERS= 52                             |  |                                                               |  |          |  |      |  |
| SELECTED FROM THE HIERARCHY POSITIONS 618 THROUGH 669-----FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY. |  |                                                               |  |          |  |      |  |
|                                                                                                              |  | COUNT OF DUTIES OR TASKS LISTED.....                          |  |          |  |      |  |
|                                                                                                              |  | CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.. |  |          |  |      |  |
| ORDERED BY.....                                                                                              |  | AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....                |  |          |  |      |  |
|                                                                                                              |  | AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING.....         |  |          |  |      |  |
|                                                                                                              |  | PERCENT OF MEMBERS PERFORMING.....                            |  |          |  |      |  |
| D-TASK                                                                                                       |  | TASK TITLE                                                    |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |
|                                                                                                              |  |                                                               |  |          |  |      |  |

| GROUP NUMBER = 13. ORDERED FROM 618 TO 669 |                                                          | AGALL 771 |      | GRPOJ03 PAGE |        |
|--------------------------------------------|----------------------------------------------------------|-----------|------|--------------|--------|
| D-TSK                                      | TASK TITLE                                               | %         | +    | %            | N      |
|                                            | E 67 REQUEST REQUIRED PUBLICATIONS                       | 38.46     | 2.11 | 0.81         | 43.83. |
| →                                          | A 17 SUPERVISE CIVILIAN PERSONNEL                        | 20.92     | 2.92 | 0.76         | 49.61  |
|                                            | E 59 MAINTAIN TECHNICAL PUBLICATIONS LIBRARY             | 34.61     | 2.16 | 0.75         | 59.36  |
|                                            | E 71 JUVENILE EQUIPMENT                                  | 32.02     | 2.22 | 0.72         | 51.23  |
|                                            | E 65 COLLATE PUBLICATIONS FOR DISTRIBUTION               | 21.15     | 3.42 | 0.72         | 51.80  |
|                                            | E 61 MAINTAIN TICKLER FILES                              | 28.84     | 2.47 | 0.71         | 52.52  |
|                                            | N 2 REGISTER MAIL                                        | 19.23     | 3.60 | 0.70         | 53.22  |
|                                            | B 2 MAKE ARRANGEMENTS FOR CEREMONIES/INSPECTIONS         | 21.15     | 3.27 | 0.69         | 53.91  |
|                                            | E 43 TYPE NAVAL MESSAGES                                 | 22.80     | 2.74 | 0.68         | 54.60  |
|                                            | N 11 INVENTORY CLASSIFIED MATERIAL                       | 23.08     | 2.93 | 0.68         | 55.28  |
|                                            | F 14 MAKE SERV-MART RUNS                                 | 25.00     | 2.73 | 0.68         | 55.96  |
| →                                          | A 14 ASSIGN COLLATERAL DUTIES                            | 34.61     | 1.86 | 0.64         | 56.60  |
|                                            | B 24 MAINTAIN LIAISON WITH OTHER WEATHER AGENCIES        | 28.84     | 2.22 | 0.64         | 57.24  |
|                                            | E 43 UAEI LOCAL EMBUS                                    | 32.29     | 1.82 | 0.63         | 57.87  |
|                                            | E 28 MAINTAIN BULLETIN BOARDS                            | 36.54     | 1.70 | 0.62         | 58.49  |
|                                            | V 28 ENSURE COMPUTER PRODUCTS ARE USEABLE AND UP TO DATE | 7.69      | 8.09 | 0.62         | 59.11  |
| →                                          | A 24 ASSIGN MILITARY DUTIES                              | 25.00     | 2.44 | 0.62         | 59.73  |
|                                            | F 16 PACKAGE MAPS AND CHARTS FOR STORAGE                 | 17.30     | 3.54 | 0.61         | 60.34  |
| →                                          | A 14 NOMINATE PERSONNEL FOR SPECIAL RECOGNITION          | 34.61     | 1.76 | 0.61         | 60.95  |
|                                            | E 44 LOG INCOMING/OUTGOING MESSAGES                      | 15.38     | 3.97 | 0.61         | 61.56  |
|                                            | B 17 COORDINATE ASSIGNMENTS WITH DETAILER                | 25.00     | 2.42 | 0.60         | 62.16  |
|                                            | E 14 MAINTAIN CLIMATOLOGICAL RECORDS                     | 17.30     | 3.34 | 0.58         | 62.74  |
|                                            | E 31 PREPARE/MAINTAIN WATCH QUARTER AND STATION BILL     | 28.84     | 2.00 | 0.58         | 63.31  |
|                                            | D 15 CONDUCT ON-THE-JOB TRAINING                         | 24.28     | 2.52 | 0.56         | 63.83  |
|                                            | D 17 MAINTAIN TRAINING RECORDS                           | 21.15     | 2.64 | 0.56         | 64.43  |
| →                                          | A 16 CONDUCT REPORTING ABOARD INTERVIEWS                 | 25.00     | 2.20 | 0.55         | 64.98  |
|                                            | E 32 SIGN OFF PRACTICAL FACTORS                          | 39.77     | 1.73 | 0.53         | 65.51  |
|                                            | F 2 SCREEN SUPPLY REQUISITIONS                           | 21.15     | 2.36 | 0.50         | 66.01  |
|                                            | E 55 MAINTAIN READ AND INITIAL BOARDS                    | 24.08     | 2.18 | 0.50         | 66.51  |
|                                            | U 6 PREPARE CLIMATOLOGICAL REPORTS                       | 15.38     | 3.25 | 0.50         | 67.01  |
|                                            | B 11 SCHEDULE PERSONNEL FOR TRAINING                     | 25.00     | 1.97 | 0.49         | 67.50  |
|                                            | E 36 MAINTAIN DIVISION OFFICERS NOTEBOOK                 | 25.00     | 1.97 | 0.49         | 67.99  |
|                                            | B 30 PREPARE WATCH BILLS                                 | 23.08     | 2.04 | 0.47         | 68.46  |
|                                            | B 18 PARTICIPATE ON INTERVIEW BOARDS                     | 23.28     | 2.04 | 0.47         | 68.93  |
| →                                          | A 20 PREPARE LOCAL DIRECTIVES                            | 25.00     | 1.88 | 0.47         | 69.40  |
|                                            | N 5 SECURE ASSIGNED SPACES                               | 19.23     | 2.41 | 0.46         | 69.86  |
|                                            | V 29 CORRECT COMPUTER PRODUCTS MANUALLY                  | 9.61      | 4.79 | 0.46         | 70.32  |
|                                            | U 40 PERFORM AS MEMBER OF A WORKING PARTY                | 7.69      | 6.03 | 0.46         | 70.78  |
|                                            | U 30 PERFORM AS MEMBER OF A ADVANT INSPECTION TEAM       | 5.77      | 1.68 | 0.44         | 71.22  |
|                                            | D 9 PREPARE LESSON GUIDES                                | 15.38     | 2.79 | 0.42         | 71.64  |
|                                            | P 27 CONDUCT TOURS OF WEATHER OFFICE SPACES              | 26.92     | 1.43 | 0.38         | 72.03  |
|                                            | E 34 PREPARE RECAL BILLS                                 | 25.00     | 1.53 | 0.38         | 72.41  |
|                                            | E 33 MAINTAIN EQUIPMENT STATUS RECORDS                   | 15.38     | 2.49 | 0.38         | 72.79  |
|                                            | U 18 PARTICIPATE IN PHYSICAL FITNESS PROGRAMS            | 24.64     | 1.31 | 0.38         | 73.16  |
|                                            | U 10 SECURE INSPECTING PARTIES                           | 19.23     | 1.94 | 0.37         | 73.54  |
| →                                          | A 19 DRAFT TECHNICAL MANUALS/PUBLICATIONS                | 9.61      | 3.90 | 0.37         | 73.91  |

GROUP 10 PAYGRADE E-3 Attachment Ael AGALL771 E3GRP101 PAGE

JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE

DUTY JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 4  
GROUP 10 PAYGRADE E-3  
SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY  
POSITIONS 618 THROUGH 669 FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.  
V0087EQ/ 37 INCUMBENT PAYGRADE

| COUNT OF DUTIES OR TASKS LISTED.....                          |        |       |       |       |       |   |   |   |    |
|---------------------------------------------------------------|--------|-------|-------|-------|-------|---|---|---|----|
| CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.. |        |       |       |       |       |   |   |   |    |
| AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....                |        |       |       |       |       |   |   |   |    |
| AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING..            |        |       |       |       |       |   |   |   |    |
| ORDERED BY..PERCENT OF MEMBERS PERFORMING.....                |        |       |       |       |       |   |   |   |    |
| DUTY TITLE                                                    | 1      | 2     | 3     | 4     | 5     | 6 | 7 | 8 | N  |
| F SUPPLY DUTIES                                               | 100.00 | 40.38 | 40.38 | 40.38 | 40.38 |   |   |   |    |
| P MISCELLANEOUS                                               | 75.00  | 22.22 | 16.67 | 16.67 | 57.04 |   |   |   |    |
| O GENERAL MILITARY DUTIES                                     | 75.00  | 8.91  | 6.08  | 6.08  | 63.72 |   |   |   |    |
| E ADMINISTRATIVE DUTIES                                       | 50.00  | 20.25 | 10.12 | 10.12 | 73.85 |   |   |   |    |
| C INSPECTING AND EVALUATING                                   | 25.00  | 20.83 | 5.20  | 5.20  | 70.03 |   |   |   | 5  |
| K MAINTENANCE SUPPORT/SERVICING                               | 25.00  | 22.50 | 5.62  | 5.62  | 84.68 |   |   |   |    |
| B ORGANIZING, PLANNING AND SCHEDULING                         | 25.00  | 25.64 | 6.41  | 6.41  | 91.08 |   |   |   |    |
| L USE/OPERATE MACHINES AND OTHER EQUIPMENT/DEVICES/TOOLS      | 25.00  | 2.50  | 0.62  | 0.62  | 91.71 |   |   |   |    |
| N SECURITY FUNCTIONS                                          | 25.00  | 10.00 | 2.50  | 2.50  | 94.20 |   |   |   |    |
| R CODING AND PLUING                                           | 25.00  | 20.51 | 5.12  | 5.12  | 99.13 |   |   |   | 10 |
| U OCEANOGRAPHY AND CLIMATOLOGY                                | 25.00  | 2.56  | 0.64  | 0.64  | 99.97 |   |   |   |    |

JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE

TASK JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 4

GROUP 10 PAYGRADE E-3

SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY

POSITIONS 618 THROUGH 609 FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.

VOOB/EO/ 3/ INCUMBENT PAYGRADE

| COUNT OF DUTIES OR TASKS LISTED.....                             |                                           |       |       |       |       |   |   |   |    |
|------------------------------------------------------------------|-------------------------------------------|-------|-------|-------|-------|---|---|---|----|
| CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS..... |                                           |       |       |       |       |   |   |   |    |
| AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....                   |                                           |       |       |       |       |   |   |   |    |
| AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING.....            |                                           |       |       |       |       |   |   |   |    |
| ORDERED BY...PERCENT OF MEMBERS PERFORMING.....                  |                                           |       |       |       |       |   |   |   |    |
| D-TASK                                                           | TASK TITLE                                | 1     | 2     | 3     | 4     | 5 | 6 | 7 | N  |
| F 9                                                              | INVENTORY SUPPLIES                        | 75.00 | 10.00 | 7.50  | 7.50  |   |   |   |    |
| F 11                                                             | STOW/BREAK-OUT SUPPLIES                   | 75.00 | 15.92 | 11.94 | 19.43 |   |   |   |    |
| F 16                                                             | PACKAGE MAPS AND CHARTS FOR STORAGE       | 50.00 | 6.34  | 3.17  | 22.60 |   |   |   |    |
| F 19                                                             | REQUISITION SUPPLIES                      | 50.00 | 6.38  | 3.19  | 25.19 |   |   |   |    |
| E 12                                                             | ISSUE SUPPLIES                            | 50.00 | 14.28 | 7.29  | 33.08 |   |   |   | 5  |
| F 14                                                             | MAKE SERV-MART RUNS                       | 50.00 | 8.75  | 4.37  | 37.45 |   |   |   |    |
| P 36                                                             | MOVE OFFICE FURNITURE                     | 50.00 | 4.58  | 2.29  | 39.74 |   |   |   |    |
| O 7                                                              | STAND PERSONNEL INSPECTIONS               | 50.00 | 3.36  | 1.68  | 41.42 |   |   |   |    |
| P 2                                                              | HOLD FIELD DAY                            | 50.00 | 17.91 | 8.96  | 50.38 |   |   |   |    |
| E 2                                                              | LELE TELETYPE MESSAGES                    | 25.00 | 2.28  | 0.64  | 51.02 |   |   |   | 10 |
| K 9                                                              | FUEL VEHICLES/EQUIPMENT                   | 25.00 | 7.50  | 1.87  | 52.89 |   |   |   |    |
| K 10                                                             | WASH VEHICLES/EQUIPMENT                   | 25.00 | 7.50  | 1.87  | 54.76 |   |   |   |    |
| K 11                                                             | WAX VEHICLES                              | 25.00 | 7.50  | 1.87  | 56.63 |   |   |   |    |
| L 1                                                              | TEAR TELETYPE PAPER                       | 25.00 | 2.50  | 0.62  | 57.26 |   |   |   |    |
| A 11                                                             | PLU SUBERGE CHARTS                        | 25.00 | 7.62  | 1.92  | 59.18 |   |   |   | 13 |
| B 5                                                              | CHECK SHIPS FORECAST FOLDERS FOR ACCURACY | 25.00 | 12.82 | 3.20  | 62.38 |   |   |   |    |
| B 6                                                              | VERIFY FORECASTS                          | 25.00 | 12.82 | 3.20  | 65.58 |   |   |   |    |
| E 14                                                             | MAINTAIN CLIMATOLOGICAL RECORDS           | 25.00 | 2.56  | 0.64  | 66.22 |   |   |   |    |
| U 6                                                              | PREPARE CLIMATOLOGICAL REPORTS            | 25.00 | 2.56  | 0.64  | 68.86 |   |   |   |    |
| E 28                                                             | MAINTAIN BULLETIN BOARDS                  | 25.00 | 2.56  | 0.64  | 67.50 |   |   |   | 20 |
| N 2                                                              | REGISTER MAIL                             | 25.00 | 10.00 | 2.50  | 70.00 |   |   |   |    |
| E 43                                                             | TYPE NAVAL MESSAGES                       | 25.00 | 2.56  | 0.64  | 70.64 |   |   |   |    |
| P 24                                                             | PICK-UP/DELIVER MESSAGES                  | 25.00 | 10.00 | 2.50  | 73.14 |   |   |   |    |
| E 68                                                             | MAINTAIN TECHNICAL PUBLICATIONS LIBRARY   | 25.00 | 2.56  | 0.64  | 73.78 |   |   |   |    |
| E 74                                                             | MAINTAIN PUBLICATIONS                     | 25.00 | 2.56  | 0.64  | 75.32 |   |   |   | 25 |
| E 74                                                             | PREPARE PACKAGES FOR MAILING              | 25.00 | 5.00  | 1.25  | 75.66 |   |   |   |    |
| E 75                                                             | PRINT MAILING LABELS                      | 25.00 | 2.50  | 0.62  | 76.29 |   |   |   |    |
| E 77                                                             | TYPE FORMS                                | 25.00 | 5.12  | 1.28  | 77.57 |   |   |   |    |
| E 79                                                             | MAIL OFFICIAL LETTERS/PACKAGES            | 25.00 | 10.00 | 2.50  | 80.06 |   |   |   |    |
| E 7                                                              | INVENTORY EQUIPMENT                       | 25.00 | 5.16  | 1.04  | 81.10 |   |   |   | 30 |
| E 1                                                              | HANG/POST TELETYPE PAPER                  | 25.00 | 2.50  | 0.62  | 81.73 |   |   |   |    |
| F 15                                                             | MAINTAIN THE LINEN LOCKER                 | 25.00 | 7.50  | 1.87  | 83.60 |   |   |   |    |



GROUP 10 PAYGRADE E-3 Ae1 AGALL771 E3GRPI03 PAGE

## JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE

DUTY JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 4  
GROUP 10 PAYGRADE E-3  
SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY  
POSITIONS 618 THROUGH 669 FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.  
V0087E07 37 INCUMBENT PAYGRADE

COUNT OF DUTIES OR TASKS LISTED.....

CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....

ORDERED BY.....AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....

AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING.....

PERCENT OF MEMBERS PERFORMING.....

D-TSK DUTY TITLE

|   |                                                        |        |       |       |       |       |    |
|---|--------------------------------------------------------|--------|-------|-------|-------|-------|----|
| F | SUPPLY DUTIES                                          | 100.00 | 40.38 | 40.38 | 40.38 | 40.38 | N  |
| P | MISCELLANEOUS                                          | 75.00  | 22.22 | 16.66 | 57.04 | 57.04 |    |
| E | ADMINISTRATIVE DUTIES                                  | 50.00  | 20.25 | 10.12 | 67.17 | 67.17 |    |
| O | GENERAL MILITARY DUTIES                                | 75.00  | 8.91  | 6.68  | 73.85 | 73.85 |    |
| B | ORGANIZING, PLANNING AND SCHEDULING                    | 25.00  | 21.04 | 8.41  | 80.28 | 80.28 | 5  |
| K | MAINTENANCE SUPPORT/SERVICING                          | 25.00  | 22.50 | 5.62  | 85.88 | 85.88 |    |
| C | INSPECTING AND EVALUATING                              | 25.00  | 20.83 | 5.20  | 91.08 | 91.08 |    |
| R | CODING AND PLOTTING                                    | 25.00  | 20.51 | 5.12  | 96.21 | 96.21 |    |
| N | SECURITY FUNCTIONS                                     | 25.00  | 10.00 | 2.50  | 98.70 | 98.70 |    |
| H | OCEANOGRAPHY AND CLIMATOLOGY                           | 25.00  | 2.50  | 0.62  | 99.34 | 99.34 | 10 |
| L | USE/OPERATE MACHINES AND OTHER EQUIPMENT/DEVICES/TOOLS | 25.00  | 2.50  | 0.62  | 99.97 | 99.97 |    |



## JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE

TASK JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 4  
GROUP 10 PAYGRADE E-3

SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY  
POSITIONS 610 THROUGH 669 FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.  
Y0007007 3/ 3 INCUMBENT PAYGRADE

| COUNT OF DUTIES OR TASKS LISTED.....                          |                                                      |       |       |       |       |    |   |   |   |    |   |
|---------------------------------------------------------------|------------------------------------------------------|-------|-------|-------|-------|----|---|---|---|----|---|
| CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.. |                                                      |       |       |       |       |    |   |   |   |    |   |
| ORDERED BY.....AVERAGE PERCENT TIME SPENT BY ALL MEMBERS..... |                                                      |       |       |       |       |    |   |   |   |    |   |
| AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING.....         |                                                      |       |       |       |       |    |   |   |   |    |   |
| PERCENT OF MEMBERS PERFORMING.....                            |                                                      |       |       |       |       |    |   |   |   |    |   |
| TASK TITLE                                                    |                                                      |       |       |       |       |    |   |   |   |    |   |
| D-TSK                                                         | 1                                                    | 2     | 3     | 4     | 5     | 6  | 7 | 8 | 9 | 10 | N |
| P 11                                                          | STON/BREAK-OUT SUPPLIES                              | 75.00 | 15.92 | 11.94 | 11.94 |    |   |   |   |    |   |
| P 29                                                          | HOLD FIELD DAY                                       | 50.00 | 17.91 | 8.96  | 20.89 |    |   |   |   |    |   |
| F 9                                                           | INVENTORY SUPPLIES                                   | 75.00 | 10.00 | 7.50  | 28.39 |    |   |   |   |    |   |
| F 12                                                          | ISSUE SUPPLIES                                       | 50.00 | 14.58 | 7.29  | 35.68 |    |   |   |   |    |   |
| C                                                             | JOIN/SECT SPACES FOR CLEANLINESS                     | 25.00 | 20.83 | 5.20  | 50.88 | 5  |   |   |   |    |   |
| O 4                                                           | PERFORM AS MEMBER OF A WORKING PARTY                 | 25.00 | 20.00 | 5.00  | 45.88 |    |   |   |   |    |   |
| F 15                                                          | MAKE SERV-MART RUNS                                  | 50.00 | 8.75  | 4.37  | 50.25 |    |   |   |   |    |   |
| B 5                                                           | CHECK SHIPS FORECAST FOLDERS FOR ACCURACY            | 25.00 | 12.82 | 3.20  | 53.45 |    |   |   |   |    |   |
| B 6                                                           | VERIFY FORECASTS                                     | 25.00 | 12.82 | 3.20  | 50.66 |    |   |   |   |    |   |
| R 2                                                           | TRANSEER TELETYPE MESSAGE INFORMATION TO DATA SHEETS | 25.00 | 12.82 | 3.20  | 53.45 | 10 |   |   |   |    |   |
| F 10                                                          | ACQUISITION SUPPLIES                                 | 50.00 | 6.38  | 3.19  | 63.05 |    |   |   |   |    |   |
| F 16                                                          | PACKAGE MAPS AND CHARTS FOR STORAGE                  | 50.00 | 6.34  | 3.17  | 66.22 |    |   |   |   |    |   |
| N 2                                                           | REGISTER MAIL                                        | 25.00 | 10.00 | 2.50  | 68.72 |    |   |   |   |    |   |
| P 24                                                          | PIC-UP/DELIVER MESSAGES                              | 25.00 | 10.00 | 2.50  | 71.21 |    |   |   |   |    |   |
| E 29                                                          | MAIL OFFICIAL LETTERS/PACKAGES                       | 25.00 | 10.00 | 2.50  | 73.71 | 15 |   |   |   |    |   |
| P 30                                                          | MOVE OFFICE FURNITURE                                | 50.00 | 4.58  | 2.29  | 76.50 |    |   |   |   |    |   |
| K 11                                                          | PILOT SURFACE CHARTS                                 | 25.00 | 7.69  | 1.92  | 77.92 |    |   |   |   |    |   |
| K 11                                                          | WASH VEHICLES                                        | 25.00 | 7.50  | 1.87  | 79.79 |    |   |   |   |    |   |
| K 10                                                          | WASH VEHICLES/EQUIPMENT                              | 25.00 | 7.50  | 1.87  | 81.66 |    |   |   |   |    |   |
| E 15                                                          | MAINTAIN THE LINEN LOCKER                            | 25.00 | 7.50  | 1.87  | 84.53 | 20 |   |   |   |    |   |
| K 9                                                           | FUEL VEHICLES/EQUIPMENT                              | 25.00 | 7.50  | 1.87  | 85.40 |    |   |   |   |    |   |
| O 7                                                           | STAND PERSONNEL INSPECTIONS                          | 50.00 | 3.36  | 1.68  | 87.08 |    |   |   |   |    |   |
| E 7                                                           | TYPE FORMS                                           | 25.00 | 5.12  | 1.28  | 88.36 |    |   |   |   |    |   |
| E 74                                                          | PREPARE PACKAGES FOR MAILING                         | 25.00 | 5.00  | 1.25  | 89.61 |    |   |   |   |    |   |
| P 35                                                          | CHANGE LINEN                                         | 25.00 | 5.00  | 1.25  | 90.86 | 25 |   |   |   |    |   |
| F 7                                                           | INVENTORY EQUIPMENT                                  | 25.00 | 4.16  | 1.04  | 91.90 |    |   |   |   |    |   |
| P 20                                                          | PAINT                                                | 25.00 | 4.16  | 1.04  | 92.94 |    |   |   |   |    |   |
| U 6                                                           | PREPARE CLIMATOLOGICAL REPORTS                       | 25.00 | 2.56  | 0.64  | 93.58 |    |   |   |   |    |   |
| E 6                                                           | MAINTAIN TECHNICAL PUBLICATIONS LIBRARY              | 25.00 | 2.56  | 0.64  | 94.22 |    |   |   |   |    |   |
| E 28                                                          | MAINTAIN BULLETIN BOARDS                             | 25.00 | 2.56  | 0.64  | 94.86 | 30 |   |   |   |    |   |
| E 2                                                           | FILE TELETYPE MESSAGES                               | 25.00 | 2.56  | 0.64  | 95.50 |    |   |   |   |    |   |
| E 14                                                          | MAINTAIN CLIMATOLOGICAL RECORDS                      | 25.00 | 2.56  | 0.64  | 96.14 |    |   |   |   |    |   |

Ae1

JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE

DUTY JOB DESCRIPTION CASES= 727-----TASKS= 483-----DUTIES=19-----MEMBERS= 4

GROUP 10 PAYGRADE E-3  
SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY  
POSITIONS 618 THROUGH 669-----FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.

V008/EQ/ 37 INCUMBENT PAYGRADE

| COUNT OF DUTIES OR TASKS LISTED.....                             |                                                        |        |       |       |       |       |       |       |       |
|------------------------------------------------------------------|--------------------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS..... |                                                        |        |       |       |       |       |       |       |       |
| AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....                   |                                                        |        |       |       |       |       |       |       |       |
| AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING.....            |                                                        |        |       |       |       |       |       |       |       |
| PERCENT OF MEMBERS PERFORMING.....                               |                                                        |        |       |       |       |       |       |       |       |
| ORDERED BY DUTY IDENTIFIERS.....                                 |                                                        |        |       |       |       |       |       |       |       |
| D-TASK                                                           |                                                        |        |       |       |       |       |       |       |       |
| DUTY TITLE                                                       |                                                        |        |       |       |       |       |       |       |       |
| B                                                                | ORGANIZING, PLANNING AND SCHEDULING                    | 25.00  | 25.64 | 6.41  | 6.41  | 6.41  | 6.41  | 6.41  | 6.41  |
| C                                                                | INSPECTING AND EVALUATING                              | 25.00  | 20.83 | 5.20  | 11.61 | 11.61 | 11.61 | 11.61 | 11.61 |
| E                                                                | ADMINISTRATIVE DUTIES                                  | 50.00  | 20.25 | 10.12 | 21.74 | 21.74 | 21.74 | 21.74 | 21.74 |
| F                                                                | SUPPLY DUTIES                                          | 100.00 | 40.38 | 40.38 | 62.12 | 62.12 | 62.12 | 62.12 | 62.12 |
| K                                                                | MAINTENANCE SUPPORT/SERVICING                          | 25.00  | 22.50 | 5.52  | 67.14 | 67.14 | 67.14 | 67.14 | 67.14 |
| L                                                                | USE/OPERATE MACHINES AND OTHER EQUIPMENT/DEVICES/TOOLS | 25.00  | 2.50  | 0.62  | 68.36 | 68.36 | 68.36 | 68.36 | 68.36 |
| N                                                                | SECURITY FUNCTIONS                                     | 25.00  | 10.00 | 2.50  | 70.86 | 70.86 | 70.86 | 70.86 | 70.86 |
| O                                                                | GENERAL MILITARY DUTIES                                | 75.00  | 8.91  | 6.68  | 77.54 | 77.54 | 77.54 | 77.54 | 77.54 |
| P                                                                | MISCELLANEOUS                                          | 75.00  | 22.22 | 16.66 | 94.20 | 94.20 | 94.20 | 94.20 | 94.20 |
| R                                                                | CODING AND PLOTTING                                    | 25.00  | 20.51 | 5.12  | 99.33 | 99.33 | 99.33 | 99.33 | 99.33 |
| U                                                                | OCEANOGRAPHY AND CLIMATOLOGY                           | 25.00  | 2.56  | 0.64  | 99.97 | 99.97 | 99.97 | 99.97 | 99.97 |



4e1  
JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE  
TASK JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 4  
GROUP 10 PAYGRADE E-3  
SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY  
POSITIONS 618 THROUGH 669 FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.  
V008/EQ/ 37 INCUMBENT PAYGRADE

| COUNT OF DUTIES OR TASKS LISTED |  | CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS... |  | AVERAGE PERCENT TIME SPENT BY ALL MEMBERS... |       | PERCENT OF MEMBERS PERFORMING... |       |
|---------------------------------|--|----------------------------------------------------------------|--|----------------------------------------------|-------|----------------------------------|-------|
| ORDERED BY TASK IDENTIFIERS.    |  | TASK TITLE                                                     |  | PERCENT OF MEMBERS PERFORMING...             |       | PERCENT OF MEMBERS PERFORMING... |       |
| D-TASK                          |  | TASK TITLE                                                     |  | PERCENT OF MEMBERS PERFORMING...             |       | PERCENT OF MEMBERS PERFORMING... |       |
| B                               |  | 5 CHECK SHIPS FORECAST FOLDERS FOR ACCURACY                    |  | 25.00                                        | 12.82 | 3.20                             | 3.20  |
| B                               |  | 6 VERIFY FORECASTS                                             |  | 25.00                                        | 12.82 | 3.20                             | 6.41  |
| C                               |  | 10 INSPECT SPACES FOR CLEANLINESS                              |  | 25.00                                        | 20.83 | 5.20                             | 11.61 |
| E                               |  | 1 HANG/POST TELETYPE PAPER                                     |  | 25.00                                        | 2.50  | 0.62                             | 12.24 |
| E                               |  | 2 TELE TELETYPE MESSAGES                                       |  | 25.00                                        | 2.56  | 0.64                             | 14.88 |
| E                               |  | 14 MAINTAIN CLIMATOLOGICAL RECORDS                             |  | 25.00                                        | 2.56  | 0.64                             | 13.52 |
| E                               |  | 28 MAINTAIN BULLETIN BOARDS                                    |  | 25.00                                        | 2.56  | 0.64                             | 14.16 |
| E                               |  | 43 TYPE NAVAL MESSAGES                                         |  | 25.00                                        | 2.56  | 0.64                             | 14.60 |
| E                               |  | 68 MAINTAIN TECHNICAL PUBLICATIONS LIBRARY                     |  | 25.00                                        | 2.56  | 0.64                             | 15.44 |
| E                               |  | 70 MAINTAIN PUBLICATIONS                                       |  | 25.00                                        | 2.56  | 0.64                             | 16.08 |
| E                               |  | 74 PREPARE PACKAGES FOR MAILING                                |  | 25.00                                        | 5.00  | 1.25                             | 17.32 |
| E                               |  | 75 PRINT MAILING LABELS                                        |  | 25.00                                        | 2.50  | 0.62                             | 17.95 |
| E                               |  | 77 TYPE FORMS                                                  |  | 25.00                                        | 5.12  | 1.28                             | 19.23 |
| E                               |  | 79 MAIL OFFICIAL LETTERS/PACKAGES                              |  | 25.00                                        | 10.00 | 2.50                             | 21.72 |
| E                               |  | 71 INVENTORY EQUIPMENT                                         |  | 25.00                                        | 4.18  | 1.04                             | 22.74 |
| F                               |  | 9 INVENTORY SUPPLIES                                           |  | 75.00                                        | 10.00 | 7.50                             | 30.26 |
| F                               |  | 10 REQUISITION SUPPLIES                                        |  | 50.00                                        | 6.38  | 3.19                             | 33.45 |
| F                               |  | 11 STOCK/BREAK-OUT SUPPLIES                                    |  | 75.00                                        | 13.92 | 11.24                            | 45.38 |
| F                               |  | 12 ISSUE SUPPLIES                                              |  | 50.00                                        | 14.56 | 7.29                             | 52.67 |
| F                               |  | 14 MAKE SERV-M881 RUNS                                         |  | 50.00                                        | 8.72  | 4.37                             | 57.04 |
| F                               |  | 15 MAINTAIN THE LINEN LOCKER                                   |  | 25.00                                        | 7.50  | 1.87                             | 58.92 |
| F                               |  | 16 PACKAGE MAPS AND CHARTS FOR STORAGE                         |  | 50.00                                        | 6.34  | 3.17                             | 62.09 |
| K                               |  | 9 FUEL VEHICLES/EQUIPMENT                                      |  | 25.00                                        | 7.50  | 1.87                             | 63.96 |
| K                               |  | 10 WASH VEHICLES/EQUIPMENT                                     |  | 25.00                                        | 7.50  | 1.87                             | 65.83 |
| K                               |  | 11 MAX VEHICLES                                                |  | 25.00                                        | 7.50  | 1.87                             | 67.70 |
| L                               |  | 1 TEAR TELETYPE PAPER                                          |  | 25.00                                        | 2.50  | 0.62                             | 68.33 |
| N                               |  | 2 REGISTER MAIL                                                |  | 25.00                                        | 10.00 | 2.50                             | 70.82 |
| O                               |  | 4 PERFORM AS MEMBER OF A WORKING PARTY                         |  | 25.00                                        | 20.00 | 5.00                             | 75.82 |
| O                               |  | 7 STAFF AND PERSONNEL INSPECTIONS                              |  | 50.00                                        | 3.36  | 1.68                             | 77.50 |
| P                               |  | 24 PICK-UP/DELIVER MESSAGES                                    |  | 25.00                                        | 10.00 | 2.5                              | 80.00 |
| P                               |  | 26 PAINT                                                       |  | 25.00                                        | 4.16  | 1.04                             | 81.04 |
| P                               |  | 29 HOLD FIELD DAY                                              |  | 50.00                                        | 17.91 | 8.96                             | 89.99 |



|                                                           |  |                                                                                |            |                                                    |             |          |          |      |
|-----------------------------------------------------------|--|--------------------------------------------------------------------------------|------------|----------------------------------------------------|-------------|----------|----------|------|
| GROUP 10 PAYGRADE E-9                                     |  | Ae1                                                                            |            | JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE |             | AGALL771 | E9GRP101 | PAGE |
| DUTY JOB DESCRIPTION                                      |  | CASES= 727                                                                     | TASKS= 483 | DUTIES=19                                          | MEMBERS= 11 |          |          |      |
| GROUP 10 PAYGRADE E-9                                     |  | SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY |            |                                                    |             |          |          |      |
| POSITIONS 618 THROUGH 669                                 |  | FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.                             |            |                                                    |             |          |          |      |
| V008/EG/                                                  |  | 97 : INCUMBENT PAYGRADE                                                        |            |                                                    |             |          |          |      |
|                                                           |  | COUNT OF DUTIES OR TASKS LISTED                                                |            |                                                    |             |          |          |      |
|                                                           |  | CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS                    |            |                                                    |             |          |          |      |
|                                                           |  | AVERAGE PERCENT TIME SPENT BY ALL MEMBERS                                      |            |                                                    |             |          |          |      |
|                                                           |  | ORDERED BY . . PERCENT OF MEMBERS PERFORMING                                   |            |                                                    |             |          |          |      |
| D-TSK                                                     |  | DUTY TITLE                                                                     |            |                                                    |             |          |          |      |
|                                                           |  | 1                                                                              | 2          | 3                                                  | 4           | 5        | N        |      |
|                                                           |  | ***                                                                            |            |                                                    |             |          |          |      |
| C ADMINISTRATIVE DUTIES                                   |  | 100.00                                                                         | 37.91      | 37.91                                              | 37.91       | 37.91    | 37.91    |      |
| B ORGANIZING, PLANNING AND SCHEDULING                     |  | 100.00                                                                         | 18.58      | 18.58                                              | 18.58       | 18.58    | 56.50    |      |
| P MISCELLANEOUS                                           |  | 90.91                                                                          | 6.90       | 6.90                                               | 6.27        | 62.76    |          |      |
| A DIRECTING AND IMPLEMENTING                              |  | 90.91                                                                          | 19.73      | 17.94                                              | 80.70       |          |          |      |
| Q GENERAL MILITARY DUTIES                                 |  | 90.91                                                                          | 6.91       | 6.34                                               | 87.04       |          |          | 5    |
| C INSPECTING AND EVALUATING                               |  | 81.82                                                                          | 3.48       | 2.85                                               | 89.89       |          |          |      |
| D TRAINING                                                |  | 63.64                                                                          | 7.12       | 4.53                                               | 94.42       |          |          |      |
| N SECURITY FUNCTIONS                                      |  | 54.54                                                                          | 2.16       | 1.18                                               | 95.60       |          |          |      |
| F SUPPLY DUTIES                                           |  | 54.54                                                                          | 5.96       | 3.25                                               | 98.84       |          |          |      |
| K MAINTENANCE SUPPORT/SERVICING                           |  | 13.18                                                                          | 1.18       | 0.21                                               | 99.38       |          |          | 10   |
| L USE/OPERATE MACHINES AND OTHER EQUIPMENT/DEVICES/TOOLS  |  | 13.18                                                                          | 1.18       | 0.21                                               | 99.38       |          |          |      |
| U OCEANOGRAPHY AND CLIMATOLOGY                            |  | 9.09                                                                           | 1.29       | 0.12                                               | 99.50       |          |          |      |
| R CODING AND PLOTTING                                     |  | 9.09                                                                           | 1.18       | 0.10                                               | 99.60       |          |          |      |
| G CONSTRUCTING AND MANUFACTURING                          |  | 9.09                                                                           | 1.71       | 0.15                                               | 99.75       |          |          |      |
| V COMPUTER PROGRAMMING AND PERIPHERAL EQUIPMENT OPERATION |  | 9.09                                                                           | 0.56       | 0.05                                               | 99.80       |          |          | 15   |
| T METEOROLOGY                                             |  | 9.09                                                                           | 0.82       | 0.07                                               | 99.87       |          |          |      |

Ae1

JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE

TASK JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 11

GROUP 10 PAYGRADE E-9

SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY

POSITIONS 618 THROUGH 669 FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.

V008/EQ/ 9/ INCUMBENT PAYGRADE

|        |                                                  | COUNT OF DUTIES OR TASKS LISTED.....                          |      |      |      |      |      |      |      |      |      |
|--------|--------------------------------------------------|---------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
|        |                                                  | CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.. |      |      |      |      |      |      |      |      |      |
|        |                                                  | AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....                |      |      |      |      |      |      |      |      |      |
|        |                                                  | ORDERED BY..PERCENT OF MEMBERS PERFORMING.....                |      |      |      |      |      |      |      |      |      |
| D-TASK |                                                  | TASK TITLE                                                    |      |      |      |      |      |      |      |      |      |
|        |                                                  | ***                                                           |      |      |      |      |      |      |      |      |      |
| E 72   | DRAFT CORRESPONDENCE                             | 100.00                                                        | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 |
| A 11   | APPROVE/DISAPPROVE SPECIAL REQUESTS              | 90.91                                                         | 2.24 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 |
| B 20   | ATTEND ADVISORY BOARD MEETINGS                   | 91.82                                                         | 2.14 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 |
| E 38   | PROOFREAD REPORTS/CORRESPONDENCE                 | 91.82                                                         | 3.49 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 |
| P 23   | MAKE TRUUBLE CALLS                               | 81.82                                                         | 2.60 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 |
| B 28   | MAKE ARRANGEMENTS FOR CEREMONIES/INSPECTIONS     | 81.82                                                         | 3.73 | 3.05 | 3.05 | 3.05 | 3.05 | 3.05 | 3.05 | 3.05 | 3.05 |
| A 20   | PREPARE LOCAL DIRECTIVES                         | 81.82                                                         | 1.58 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 |
| E 28   | MAINTAIN BULLETIN BOARDS                         | 72.72                                                         | 1.70 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 |
| E 31   | PREPARE/MAINTAIN WATCH QUARTER AND STATION BILL  | 72.72                                                         | 2.32 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 |
| A 16   | CONDUCT REPORTING ABOARD INTERVIEWS              | 72.72                                                         | 2.85 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 |
| B 30   | PREPARE WATCH BILLS                              | 72.72                                                         | 2.10 | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 |
| E 35   | MAINTAIN ORGANIZATION CHARTS                     | 72.72                                                         | 2.22 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 |
| E 13   | MAINTAIN PERSONNEL FOR SPECIAL RECOGNITION       | 72.72                                                         | 2.00 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 |
| A 14   | ASSIGN COLLATERAL DUTIES                         | 72.72                                                         | 2.14 | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 |
| E 76   | FILE CORRESPONDENCE                              | 72.72                                                         | 3.11 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 |
| B 17   | COORDINATE ASSIGNMENTS WITH DETAILER             | 63.64                                                         | 2.14 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 |
| B 18   | PARTICIPATE ON INTERVIEW BOARDS                  | 63.64                                                         | 1.72 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |
| B 21   | ATTEND RECREATION AND WELFARE COMMITTEE MEETINGS | 63.64                                                         | 2.62 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 |
| A 17   | SUPERVISE CIVILIAN PERSONNEL                     | 63.64                                                         | 2.14 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 |
| B 31   | INITIATE WORK REQUESTS                           | 63.64                                                         | 2.12 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 |
| E 69   | MAINTAIN DIRECTIVES                              | 63.64                                                         | 3.85 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 |
| O 35   | SUPERVISE TRAINING PROGRAMS                      | 63.64                                                         | 2.33 | 1.48 | 1.48 | 1.48 | 1.48 | 1.48 | 1.48 | 1.48 | 1.48 |
| O 75   | STAND PERSONNEL INSPECTIONS                      | 63.64                                                         | 1.97 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 |
| A 24   | ASSIGN MILITARY DUTIES                           | 63.64                                                         | 2.50 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 |
| O 10   | ESCORT INSPECTING PARTIES                        | 63.64                                                         | 2.32 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 |
| A 18   | APPROVE WATCH BILLS                              | 54.54                                                         | 1.93 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| E 42   | READ DAILY MESSAGE TRAFFIC                       | 54.54                                                         | 3.30 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 |
| O 29   | MAINTAIN LEAVE SCHEDULES                         | 54.54                                                         | 1.96 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 |
| E 67   | REQUEST REQUIRED PUBLICATIONS                    | 54.54                                                         | 2.30 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 |
| E 61   | MAINTAIN TICKLER FILES                           | 54.54                                                         | 2.37 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 |
| B 11   | SCHEDULE PERSONNEL FOR TRAINING                  | 54.54                                                         | 2.36 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 |
|        |                                                  | thru                                                          |      |      |      |      |      |      |      |      |      |
|        |                                                  | 9.01                                                          |      |      |      |      |      |      |      |      |      |

| GROUP 10 PAYGRADE E-9                                                          |                                                         | Ae1    |       | AGALL771 |       | E9GRPI03 |       | PAGE  |    |
|--------------------------------------------------------------------------------|---------------------------------------------------------|--------|-------|----------|-------|----------|-------|-------|----|
| JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE                             |                                                         |        |       |          |       |          |       |       |    |
| DUTY JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 11               |                                                         |        |       |          |       |          |       |       |    |
| GROUP 10 PAYGRADE E-9                                                          |                                                         |        |       |          |       |          |       |       |    |
| SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY |                                                         |        |       |          |       |          |       |       |    |
| POSITIONS 418 THROUGH 669 FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.   |                                                         |        |       |          |       |          |       |       |    |
| V008/EQ/ 9/ : INCUMBENT PAYGRADE                                               |                                                         |        |       |          |       |          |       |       |    |
| COUNT OF DUTIES OR TASKS LISTED                                                |                                                         |        |       |          |       |          |       |       |    |
| CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS                    |                                                         |        |       |          |       |          |       |       |    |
| ORDERED BY.....AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....                  |                                                         |        |       |          |       |          |       |       |    |
| AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING.....                          |                                                         |        |       |          |       |          |       |       |    |
| PERCENT OF MEMBERS PERFORMING.....                                             |                                                         |        |       |          |       |          |       |       |    |
| D-TASK DUTY TITLE                                                              |                                                         |        |       |          |       |          |       |       |    |
| E                                                                              | ADMINISTRATIVE DUTIES                                   | 100.00 | 37.91 | 37.91    | 37.91 | 37.91    | 37.91 | 37.91 | 5  |
| B                                                                              | ORGANIZING, PLANNING AND SCHEDULING                     | 100.00 | 18.58 | 18.58    | 18.58 | 18.58    | 18.58 | 18.58 |    |
| A                                                                              | DIRECTING AND IMPLEMENTING                              | 90.91  | 19.73 | 17.94    | 17.94 | 17.94    | 17.94 | 17.94 |    |
| O                                                                              | GENERAL MILITARY DUTIES                                 | 90.91  | 6.97  | 6.97     | 6.97  | 6.97     | 6.97  | 6.97  |    |
| P                                                                              | MISCELLANEOUS                                           | 90.91  | 6.97  | 6.97     | 6.97  | 6.97     | 6.97  | 6.97  |    |
| D                                                                              | TRAINING                                                | 63.64  | 7.12  | 7.12     | 7.12  | 7.12     | 7.12  | 7.12  |    |
| F                                                                              | SUPPLY DUTIES                                           | 54.54  | 5.96  | 5.96     | 5.96  | 5.96     | 5.96  | 5.96  |    |
| C                                                                              | INSPECTING AND EVALUATING                               | 81.82  | 3.48  | 3.48     | 3.48  | 3.48     | 3.48  | 3.48  |    |
| N                                                                              | SECURITY FUNCTIONS                                      | 54.54  | 2.16  | 2.16     | 2.16  | 2.16     | 2.16  | 2.16  |    |
| K                                                                              | MAINTENANCE SUPPORT/SERVICING                           | 18.18  | 1.78  | 1.78     | 1.78  | 1.78     | 1.78  | 1.78  |    |
| L                                                                              | USE/OPERATE MACHINES AND OTHER EQUIPMENT/DEVICES/TOOLS  | 18.18  | 1.78  | 1.78     | 1.78  | 1.78     | 1.78  | 1.78  | 10 |
| G                                                                              | CONSTRUCTING AND MANUFACTURING                          | 9.09   | 1.71  | 1.71     | 1.71  | 1.71     | 1.71  | 1.71  |    |
| U                                                                              | OCEANOGRAPHY AND CLIMATOLOGY                            | 9.09   | 1.29  | 1.29     | 1.29  | 1.29     | 1.29  | 1.29  |    |
| R                                                                              | COODING AND PLOTTING                                    | 9.09   | 1.18  | 1.18     | 1.18  | 1.18     | 1.18  | 1.18  |    |
| T                                                                              | METEOROLOGY                                             | 9.09   | 0.82  | 0.82     | 0.82  | 0.82     | 0.82  | 0.82  |    |
| V                                                                              | COMPUTER PROGRAMMING AND PERIPHERAL EQUIPMENT OPERATION | 9.09   | 0.56  | 0.56     | 0.56  | 0.56     | 0.56  | 0.56  | 15 |

A-26

JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE

TASK JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 11  
 GROUP 10 PAYGRADE E-9  
 SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY  
 POSITIONS 618 THROUGH 669 FURNISHED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.  
 V008/EQ/ 97 : INCUMBENT PAYGRADE

| COUNT OF DUTIES OR TASKS LISTED                             |            |        |      |      |       |      |      |      |    |
|-------------------------------------------------------------|------------|--------|------|------|-------|------|------|------|----|
| CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS |            |        |      |      |       |      |      |      |    |
| ORDERED BY                                                  |            |        |      |      |       |      |      |      |    |
| AVERAGE PERCENT TIME SPENT BY ALL MEMBERS                   |            |        |      |      |       |      |      |      |    |
| AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING            |            |        |      |      |       |      |      |      |    |
| PERCENT OF MEMBERS PERFORMING                               |            |        |      |      |       |      |      |      |    |
| D-TASK                                                      | TASK TITLE | %      | %    | %    | %     | %    | %    | %    | N  |
| E 72DRAFT CORRESPONDENCE                                    |            | 100.00 | 3.18 | 3.18 | 3.18  | 3.18 | 3.18 | 3.18 | 11 |
| B 28MAKE ARRANGEMENTS FOR CEREMONIES/INSPECTIONS            |            | 81.82  | 3.73 | 3.05 | 6.23  |      |      |      |    |
| E 38PROUDREAD REPORTS/CORRESPONDENCE                        |            | 81.82  | 3.49 | 2.85 | 9.08  |      |      |      |    |
| E 69MAINTAIN DIRECTIVES                                     |            | 63.64  | 3.85 | 2.45 | 11.53 |      |      |      |    |
| E 73FILE CORRESPONDENCE                                     |            | 72.72  | 3.11 | 2.26 | 13.79 |      |      |      | 5  |
| P 23MAKE TROUBLE CALLS                                      |            | 81.82  | 2.60 | 2.13 | 15.92 |      |      |      |    |
| U 7PERFORM AS MEMBER OF A AD/MAT INSPECTION TEAM            |            | 27.27  | 7.68 | 2.09 | 18.01 |      |      |      |    |
| A 16CONDUCT REPORTING ABOARD INTERVIEWS                     |            | 72.72  | 2.86 | 2.08 | 20.09 |      |      |      |    |
| A 11APPROVE/DISAPPROVE SPECIAL REQUESTS                     |            | 90.91  | 2.24 | 2.04 | 22.13 |      |      |      |    |
| E 42READ DAILY MESSAGE TRAFFIC                              |            | 54.54  | 3.30 | 1.80 | 23.92 |      |      |      | 10 |
| B 23ATTEND ADVISORY BOARD MEETINGS                          |            | 81.82  | 2.14 | 1.75 | 25.67 |      |      |      |    |
| E 31PREPARE/MAINTAIN WATCH QUARTER AND STATION BILL         |            | 72.72  | 2.32 | 1.69 | 27.36 |      |      |      |    |
| E 29PREPARE SITUATION REPORTS                               |            | 27.27  | 6.13 | 1.67 | 29.03 |      |      |      |    |
| B 21ATTEND RECREATION AND WELFARE COMMITTEE MEETINGS        |            | 63.64  | 2.62 | 1.67 | 30.70 |      |      |      |    |
| B 27PREPARE ENLISTED PERFORMANCE EVALUATIONS                |            | 72.72  | 2.22 | 1.62 | 32.32 |      |      |      | 15 |
| A 24ASSIGN MILITARY DUTIES                                  |            | 63.64  | 2.50 | 1.59 | 33.90 |      |      |      |    |
| A 14ASSIGN COLLATERAL DUTIES                                |            | 72.72  | 2.14 | 1.56 | 35.46 |      |      |      |    |
| B 30PREPARE WATCH BILLS                                     |            | 72.72  | 2.10 | 1.52 | 36.98 |      |      |      |    |
| O 3SUPERVISE TRAINING PROGRAMS                              |            | 63.64  | 2.33 | 1.48 | 38.46 |      |      |      |    |
| O 10ESCORT INSPECTING PARTIES                               |            | 63.64  | 2.32 | 1.47 | 39.94 |      |      |      | 20 |
| A 13NOMINATE PERSONNEL FOR SPECIAL RECOGNITION              |            | 72.72  | 2.01 | 1.46 | 41.40 |      |      |      |    |
| E 35MAINTAIN ORGANIZATION CHARTS                            |            | 72.72  | 2.00 | 1.45 | 42.85 |      |      |      |    |
| A 17SUPERVISE CIVILIAN PERSONNEL                            |            | 63.64  | 2.14 | 1.36 | 44.21 |      |      |      |    |
| B 17COORDINATE ASSIGNMENTS WITH DETAILER                    |            | 63.64  | 2.14 | 1.36 | 45.57 |      |      |      |    |
| B 31INITIATE WORK REQUESTS                                  |            | 63.64  | 2.12 | 1.35 | 46.92 |      |      |      | 25 |
| A 25CONDUCT ZONE INSPECTIONS                                |            | 54.54  | 2.45 | 1.33 | 48.25 |      |      |      |    |
| E 61MAINTAIN TICKLER FILES                                  |            | 54.54  | 2.37 | 1.29 | 49.54 |      |      |      |    |
| A 20PREPARE LOCAL DIRECTIVES                                |            | 81.82  | 1.58 | 1.29 | 50.84 |      |      |      |    |
| B 11SCHEDULE PERSONNEL FOR TRAINING                         |            | 54.54  | 2.36 | 1.28 | 52.12 |      |      |      |    |
| E 67REQUEST REQUIRED PUBLICATIONS                           |            | 54.54  | 2.30 | 1.26 | 53.38 |      |      |      | 30 |
| O 7STAND PERSONNEL INSPECTIONS                              |            | 63.64  | 1.97 | 1.25 | 54.63 |      |      |      |    |
| E 30PREPARE RECURRING REPORTS                               |            | 45.45  | 2.72 | 1.24 | 55.86 |      |      |      |    |

7/14  
0.14



|                                                                                |                                                         |        |       |          |       |               |  |
|--------------------------------------------------------------------------------|---------------------------------------------------------|--------|-------|----------|-------|---------------|--|
| GROUP 10 PAYGRADE E-9                                                          |                                                         | Ae1    |       | ACALL771 |       | E9GRP104 PAGE |  |
| JOB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE                             |                                                         |        |       |          |       |               |  |
| DUTY JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 11               |                                                         |        |       |          |       |               |  |
| GROUP 10 PAYGRADE E-9                                                          |                                                         |        |       |          |       |               |  |
| SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY |                                                         |        |       |          |       |               |  |
| POSITIONS 618 THROUGH 669 FORMED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.   |                                                         |        |       |          |       |               |  |
| V008/EQ/ 9/ : INCUMBENT PAYGRADE                                               |                                                         |        |       |          |       |               |  |
| COUNT OF DUTIES OR TASKS LISTED.....                                           |                                                         |        |       |          |       |               |  |
| CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS..                  |                                                         |        |       |          |       |               |  |
| AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....                                 |                                                         |        |       |          |       |               |  |
| AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING.                              |                                                         |        |       |          |       |               |  |
| PERCENT OF MEMBERS PERFORMING.....                                             |                                                         |        |       |          |       |               |  |
| ORDERED BY DUTY IDENTIFIERS.                                                   |                                                         |        |       |          |       |               |  |
| D-TSK                                                                          |                                                         |        |       |          |       |               |  |
| V ****                                                                         |                                                         |        |       |          |       |               |  |
| A                                                                              | DIRECTING AND IMPLEMENTING                              | 90.91  | 19.73 | 17.94    | 17.94 |               |  |
| B                                                                              | ORGANIZING, PLANNING AND SCHEDULING                     | 100.00 | 18.58 | 18.58    | 36.52 |               |  |
| C                                                                              | INSPECTING AND EVALUATING                               | 81.82  | 3.48  | 2.85     | 39.37 |               |  |
| D                                                                              | TRAINING                                                | 33.64  | 7.12  | 4.53     | 43.90 |               |  |
| E                                                                              | ADMINISTRATIVE DUTIES                                   | 100.00 | 37.91 | 37.91    | 81.81 | 5             |  |
| F                                                                              | SUPPLY DUTIES                                           | 54.54  | 5.96  | 3.25     | 85.06 |               |  |
| G                                                                              | CONSTRUCTING AND MANUFACTURING                          | 9.09   | 1.71  | 0.15     | 85.21 |               |  |
| H                                                                              | MAINTENANCE SUPPORT/SERVICING                           | 18.18  | 1.78  | 0.32     | 85.54 |               |  |
| I                                                                              | USE/OPERATE MACHINES AND OTHER EQUIPMENT/DEVICES/TOOLS  | 18.18  | 1.18  | 0.21     | 85.75 |               |  |
| J                                                                              | SECURITY FUNCTIONS                                      | 54.54  | 2.16  | 1.18     | 86.93 | 10            |  |
| K                                                                              | GENERAL MILITARY DUTIES                                 | 90.91  | 6.97  | 6.34     | 93.26 |               |  |
| L                                                                              | MISCELLANEOUS                                           | 90.91  | 6.90  | 6.27     | 97.53 |               |  |
| M                                                                              | CODING AND PLOTTING                                     | 9.09   | 1.18  | 0.10     | 99.64 |               |  |
| N                                                                              | METEOROLOGY                                             | 9.09   | 0.82  | 0.07     | 99.71 |               |  |
| O                                                                              | OCEANOGRAPHY AND CLIMATOLOGY                            | 9.09   | 1.29  | 0.12     | 99.82 | 15            |  |
| P                                                                              | COMPUTER PROGRAMMING AND PERIPHERAL EQUIPMENT OPERATION | 9.09   | 0.56  | 0.05     | 99.87 |               |  |



GROUP 10 PAYGRADE E-9

AGALL771

E9GRP104 PAGE

JUB DESCRIPTION FOR GROUP 10 PERSONNEL BY PAYGRADE

TASK JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 11

GROUP 10 PAYGRADE E-9

SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLE VALUES, WITHIN HIERARCHY

POSITIONS 618 THROUGH 669 TURNED AT STAGE 10 OF GROUPING ON TASK SIMILARITY.

V008/EQ7 97 :INCUMBENT PAYGRADE

| COUNT OF DUTIES OR TASKS LISTED                      |  | CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS |  | AVERAGE PERCENT TIME SPENT BY ALL MEMBERS |  | PERCENT OF MEMBERS PERFORMING |  | ORDERED BY TASK IDENTIFIERS |  | TASK TITLE |  | D-TASK |  | Y    |  | N    |  |
|------------------------------------------------------|--|-------------------------------------------------------------|--|-------------------------------------------|--|-------------------------------|--|-----------------------------|--|------------|--|--------|--|------|--|------|--|
| A                                                    |  | A                                                           |  | A                                         |  | A                             |  | A                           |  | A          |  | A      |  | A    |  | A    |  |
| A 7ASSIGN PERSONNEL FOR DEPLOYMENT                   |  | 27.27                                                       |  | 2.05                                      |  | 0.56                          |  | 0.56                        |  | 0.56       |  | 0.56   |  | 0.56 |  | 0.56 |  |
| A 8PREPARE JOB ORDERS FOR CIVILIAN PAY               |  | 18.18                                                       |  | 1.79                                      |  | 0.32                          |  | 0.32                        |  | 0.32       |  | 0.32   |  | 0.32 |  | 0.32 |  |
| A 9CHECK CIVILIAN PAYROLLS FOR ACCURACY              |  | 27.27                                                       |  | 1.56                                      |  | 0.42                          |  | 0.42                        |  | 0.42       |  | 0.42   |  | 0.42 |  | 0.42 |  |
| A 10COORDINATE TUITION AID PROGRAM                   |  | 36.36                                                       |  | 1.33                                      |  | 0.48                          |  | 0.48                        |  | 0.48       |  | 0.48   |  | 0.48 |  | 0.48 |  |
| A 11APPROVE/DISAPPROVE SPECIAL REQUESTS              |  | 90.91                                                       |  | 2.24                                      |  | 2.04                          |  | 2.04                        |  | 2.04       |  | 2.04   |  | 2.04 |  | 2.04 |  |
| A 12CONDUCT PHYSICAL FITNESS PROGRAMS                |  | 27.27                                                       |  | 2.53                                      |  | 0.69                          |  | 0.69                        |  | 0.69       |  | 0.69   |  | 0.69 |  | 0.69 |  |
| A 13NOMINATE PERSONNEL FOR SPECIAL RECOGNITION       |  | 72.72                                                       |  | 2.01                                      |  | 1.46                          |  | 1.46                        |  | 1.46       |  | 1.46   |  | 1.46 |  | 1.46 |  |
| A 14ASSIGN COLLATERAL DUTIES                         |  | 72.72                                                       |  | 2.14                                      |  | 1.56                          |  | 1.56                        |  | 1.56       |  | 1.56   |  | 1.56 |  | 1.56 |  |
| A 15PARTICIPATE ON JOB QUALIFICATION BOARDS          |  | 18.18                                                       |  | 1.30                                      |  | 0.24                          |  | 0.24                        |  | 0.24       |  | 0.24   |  | 0.24 |  | 0.24 |  |
| A 16CONDUCT REPORTING ABOARD INTERVIEWS              |  | 72.72                                                       |  | 2.86                                      |  | 2.08                          |  | 2.08                        |  | 2.08       |  | 2.08   |  | 2.08 |  | 2.08 |  |
| A 17SUPERVISE CIVILIAN PERSONNEL                     |  | 63.64                                                       |  | 2.14                                      |  | 1.36                          |  | 1.36                        |  | 1.36       |  | 1.36   |  | 1.36 |  | 1.36 |  |
| A 18APPROVE WATCH BILLS                              |  | 54.54                                                       |  | 1.93                                      |  | 1.05                          |  | 1.05                        |  | 1.05       |  | 1.05   |  | 1.05 |  | 1.05 |  |
| A 20PREPARE LOCAL DIRECTIVES                         |  | 81.82                                                       |  | 1.58                                      |  | 1.29                          |  | 1.29                        |  | 1.29       |  | 1.29   |  | 1.29 |  | 1.29 |  |
| A 21NOTIFY ACTIVITIES OF BUDGET AUTHORIZATIONS       |  | 18.18                                                       |  | 2.08                                      |  | 0.38                          |  | 0.38                        |  | 0.38       |  | 0.38   |  | 0.38 |  | 0.38 |  |
| A 22CONTROL OPERATING EXPENSES                       |  | 36.36                                                       |  | 1.86                                      |  | 0.68                          |  | 0.68                        |  | 0.68       |  | 0.68   |  | 0.68 |  | 0.68 |  |
| A 24ASSIGN MILITARY DUTIES                           |  | 18.18                                                       |  | 2.08                                      |  | 1.59                          |  | 1.59                        |  | 1.59       |  | 1.59   |  | 1.59 |  | 1.59 |  |
| A 25CONDUCT ZONE INSPECTIONS                         |  | 54.54                                                       |  | 2.45                                      |  | 1.33                          |  | 1.33                        |  | 1.33       |  | 1.33   |  | 1.33 |  | 1.33 |  |
| A 3CHECK CHARTS FOR COMPLETENESS                     |  | 9.09                                                        |  | 0.64                                      |  | 0.06                          |  | 0.06                        |  | 0.06       |  | 0.06   |  | 0.06 |  | 0.06 |  |
| B 11SCHEDULE PERSONNEL FOR TRAINING                  |  | 54.54                                                       |  | 2.38                                      |  | 1.28                          |  | 1.28                        |  | 1.28       |  | 1.28   |  | 1.28 |  | 1.28 |  |
| B 17COORDINATE ASSIGNMENTS WITH DETAILER             |  | 63.64                                                       |  | 2.14                                      |  | 1.36                          |  | 1.36                        |  | 1.36       |  | 1.36   |  | 1.36 |  | 1.36 |  |
| B 18PARTICIPATE ON INTERVIEW BOARDS                  |  | 63.64                                                       |  | 1.72                                      |  | 1.10                          |  | 1.10                        |  | 1.10       |  | 1.10   |  | 1.10 |  | 1.10 |  |
| B 19ATTEND FLIGHT AUDIT BOARD                        |  | 9.09                                                        |  | 2.59                                      |  | 0.23                          |  | 0.23                        |  | 0.23       |  | 0.23   |  | 0.23 |  | 0.23 |  |
| B 20ATTEND ADVISORY BOARD MEETINGS                   |  | 81.82                                                       |  | 2.14                                      |  | 1.75                          |  | 1.75                        |  | 1.75       |  | 1.75   |  | 1.75 |  | 1.75 |  |
| B 21ATTEND RECREATION AND WELFARE COMMITTEE MEETINGS |  | 63.64                                                       |  | 2.62                                      |  | 1.67                          |  | 1.67                        |  | 1.67       |  | 1.67   |  | 1.67 |  | 1.67 |  |
| B 22ATTEND MINORITY AFFAIRS COMMITTEE MEETINGS       |  | 18.18                                                       |  | 2.10                                      |  | 0.38                          |  | 0.38                        |  | 0.38       |  | 0.38   |  | 0.38 |  | 0.38 |  |
| B 23ATTEND DISASTER CONTROL MEETINGS                 |  | 36.36                                                       |  | 1.52                                      |  | 0.55                          |  | 0.55                        |  | 0.55       |  | 0.55   |  | 0.55 |  | 0.55 |  |
| B 24MAINTAIN LIAISON WITH OTHER WEATHER AGENCIES     |  | 27.27                                                       |  | 1.27                                      |  | 0.34                          |  | 0.34                        |  | 0.34       |  | 0.34   |  | 0.34 |  | 0.34 |  |
| B 25MAINTAIN LIAISON WITH CIVILIAN CONTRACTORS       |  | 52.55                                                       |  | 1.80                                      |  | 0.82                          |  | 0.82                        |  | 0.82       |  | 0.82   |  | 0.82 |  | 0.82 |  |
| B 26ACT AS LIAISON FOR PROJECT TRANSITION            |  | 72.72                                                       |  | 2.22                                      |  | 1.62                          |  | 1.62                        |  | 1.62       |  | 1.62   |  | 1.62 |  | 1.62 |  |
| B 27PREPARE ENLISTED PERFORMANCE EVALUATIONS         |  | 81.82                                                       |  | 3.73                                      |  | 3.05                          |  | 3.05                        |  | 3.05       |  | 3.05   |  | 3.05 |  | 3.05 |  |
| B 29MAKE ARRANGEMENTS FOR CEREMONIES/INSPECTIONS     |  | 81.82                                                       |  | 3.73                                      |  | 3.05                          |  | 3.05                        |  | 3.05       |  | 3.05   |  | 3.05 |  | 3.05 |  |

Y

Y

## Attachment AFI

## COMPARISON OF GROUPS BY INDIVIDUAL TASK

AGALL771

## DAILY SUMMARY OF PERCENT OF MEMBERS PERFORMING EACH TASK.

AVERAGE PERCENT MEMBER IS INCLUDED IN THE FOLLOWING GROUPS

AGSPCE2 THRU AGSPCE9

SEVENTH DIGIT SPECIFIES THE PAYGRADE OF THE GROUP

## THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

|         |                        |          |      |
|---------|------------------------|----------|------|
| AGSPCE2 | PEOPLE IN PAYGRADE E-2 | MEMBERS= | 3.   |
| AGSPCE3 | PEOPLE IN PAYGRADE E-3 | MEMBERS= | 74.  |
| AGSPCE4 | PEOPLE IN PAYGRADE E-4 | MEMBERS= | 140. |
| AGSPCE5 | PEOPLE IN PAYGRADE E-5 | MEMBERS= | 190. |
| AGSPCE6 | PEOPLE IN PAYGRADE E-6 | MEMBERS= | 170. |
| AGSPCE7 | PEOPLE IN PAYGRADE E-7 | MEMBERS= | 113. |
| AGSPCE8 | PEOPLE IN PAYGRADE E-8 | MEMBERS= | 26.  |
| AGSPCE9 | PEOPLE IN PAYGRADE E-9 | MEMBERS= | 11.  |

DIY/

| TASK | AGSPCE2 | AGSPCE3 | AGSPCE4 | AGSPCE5 | AGSPCE6 | AGSPCE7 | AGSPCE8 | AGSPCE9 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|
| R    | 122.00  | 87.34   | 92.14   | 87.37   | 82.41   | 85.38   | 75.32   | 9.09    |
| L    | 100.00  | 87.84   | 93.57   | 95.79   | 95.00   | 80.53   | 65.53   | 18.18   |
| U    | 33.33   | 44.59   | 42.36   | 48.95   | 62.94   | 77.88   | 61.54   | 9.09    |
| E    | 66.67   | 94.59   | 97.14   | 94.42   | 98.52   | 100.00  | 100.00  | 100.00  |
| O    | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  |
| C    | 33.33   | 75.63   | 76.43   | 77.37   | 81.18   | 83.19   | 80.77   | 81.82   |
| K    | 46.67   | 95.14   | 92.14   | 92.11   | 81.18   | 66.37   | 46.15   | 18.18   |
| J    | 0.00    | 40.54   | 45.71   | 43.68   | 45.88   | 38.94   | 39.77   | 5.00    |
| D    | 33.33   | 77.53   | 83.57   | 94.74   | 95.88   | 93.23   | 100.00  | 100.00  |
| G    | 3.00    | 12.16   | 8.57    | 7.89    | 12.59   | 8.35    | 3.85    | 9.09    |
| V    | 9.09    | 22.07   | 18.57   | 32.53   | 18.24   | 3.73    | 15.31   | 9.09    |
| P    | 100.00  | 97.30   | 97.86   | 96.84   | 95.88   | 80.53   | 92.31   | 90.91   |
| A    | 0.00    | 16.22   | 21.41   | 51.05   | 70.32   | 89.38   | 100.00  | 91.91   |
| S    | 33.33   | 43.24   | 53.57   | 66.32   | 80.59   | 83.57   | 88.46   | 63.64   |
| S    | 66.67   | 83.78   | 76.43   | 63.42   | 67.06   | 71.68   | 53.85   | 0.00    |
| M    | 66.67   | 59.36   | 46.43   | 46.84   | 41.76   | 52.44   | 38.46   | 54.55   |
| F    | 66.67   | 63.51   | 63.57   | 63.16   | 48.82   | 52.21   | 76.92   | 54.55   |
| I    | 33.33   | 48.65   | 47.06   | 59.42   | 77.65   | 85.84   | 76.92   | 9.09    |
| O    | 100.00  | 71.62   | 67.86   | 60.42   | 70.59   | 78.76   | 88.46   | 90.91   |

A-30

Attachment AFI



## Attachment AF2

AGALL771

## COMPARISON OF GROUPS BY INDIVIDUAL TASK

ONLY SUMMARY OF PERCENT OF MEMBERS PERFORMING EACH TASK  
 AVERAGE PERCENT MEMBER IS INCLUDED IN THE FOLLOWING GROUPS  
 — ACSPCE2 THRU ACSPCE9

AGALL771 AG00SP07 PAGE 11

## COMPARISON OF GROUPS BY INDIVIDUAL TASK

| TYPE | TASK | AGSPCE2 | AGSPCE3 | AGSPCE4 | AGSPCE5 | AGSPCE6 | AGSPCE7 | AGSPCE8 | AGSPCE9 |
|------|------|---------|---------|---------|---------|---------|---------|---------|---------|
| B 22 | 0.0  | 0.0     | 1.35    | 2.14    | 0.53    | 2.35    | 3.54    | 7.69    | 18.18   |
| V 20 | 0.0  | 0.0     | 1.35    | 2.86    | 6.84    | 5.88    | 0.88    | 0.0     | 0.0     |
| B 23 | 0.0  | 0.0     | 1.35    | 4.29    | 4.21    | 5.88    | 8.85    | 7.69    | 18.18   |
| V 21 | 0.0  | 0.0     | 0.0     | 1.43    | 5.79    | 5.29    | 3.54    | 3.85    | 0.0     |
| B 24 | 0.0  | 0.0     | 1.35    | 7.14    | 7.89    | 22.35   | 38.05   | 53.85   | 36.36   |
| V 22 | 0.0  | 0.0     | 0.0     | 0.71    | 5.79    | 3.53    | 0.88    | 3.85    | 0.0     |
| B 25 | 0.0  | 0.0     | 1.35    | 2.14    | 3.16    | 7.06    | 12.39   | 11.54   | 27.27   |
| A 6  | 0.0  | 0.0     | 0.0     | 2.86    | 7.37    | 4.12    | 0.88    | 3.85    | 0.0     |
| B 26 | 0.0  | 0.0     | 0.0     | 0.71    | 0.0     | 1.76    | 8.85    | 19.23   | 45.45   |
| V 23 | 0.0  | 0.0     | 0.0     | 3.0     | 2.63    | 2.35    | 0.88    | 3.85    | 0.0     |
| C 9  | 0.0  | 0.0     | 1.35    | 2.14    | 8.95    | 6.47    | 22.12   | 15.39   | 45.45   |
| V 24 | 0.0  | 0.0     | 0.0     | 1.43    | 4.74    | 2.94    | 0.88    | 3.85    | 0.0     |
| A 27 | 0.0  | 0.0     | 4.05    | 5.71    | 10.53   | 6.47    | 17.70   | 15.36   | 18.18   |
| V 27 | 0.0  | 0.0     | 1.35    | 3.57    | 11.05   | 5.29    | 2.65    | 0.0     | 0.0     |
| B 28 | 0.0  | 0.0     | 20.27   | 18.57   | 20.00   | 21.76   | 39.82   | 53.85   | 72.73   |
| A 7  | 0.0  | 0.0     | 0.0     | 0.0     | 1.05    | 4.71    | 9.73    | 11.54   | 27.27   |
| E 37 | 0.0  | 0.0     | 0.0     | 0.71    | 1.58    | 5.29    | 9.73    | 15.36   | 18.18   |
| E 29 | 0.0  | 0.0     | 0.0     | 2.14    | 3.16    | 8.24    | 14.16   | 11.54   | 27.27   |
| E 38 | 0.0  | 0.0     | 2.70    | 12.14   | 16.84   | 30.59   | 58.41   | 88.46   | 81.82   |
| E 30 | 0.0  | 0.0     | 0.0     | 5.00    | 4.74    | 17.06   | 43.36   | 53.85   | 45.45   |
| A 15 | 0.0  | 0.0     | 0.0     | 0.0     | 0.53    | 0.59    | 6.19    | 15.38   | 18.18   |
| E 31 | 0.0  | 0.0     | 1.35    | 6.43    | 7.37    | 14.71   | 39.82   | 76.92   | 72.73   |
| A 16 | 0.0  | 0.0     | 1.35    | 0.71    | 4.74    | 7.65    | 30.09   | 52.00   | 72.73   |
| E 32 | 0.0  | 0.0     | 1.35    | 6.43    | 20.00   | 57.65   | 76.11   | 89.77   | 45.45   |
| A 17 | 0.0  | 0.0     | 0.0     | 0.71    | 7.37    | 11.18   | 23.89   | 34.62   | 63.64   |
| E 33 | 0.0  | 0.0     | 1.35    | 8.57    | 11.58   | 33.53   | 47.79   | 73.08   | 36.36   |
| B 30 | 0.0  | 0.0     | 2.70    | 4.29    | 11.05   | 22.94   | 40.71   | 49.23   | 72.73   |
| A 8  | 0.0  | 0.0     | 0.0     | 1.43    | 1.58    | 2.35    | 9.73    | 0.0     | 18.18   |
| A 18 | 0.0  | 0.0     | 1.35    | 1.43    | 1.58    | 5.88    | 32.74   | 46.15   | 54.55   |
| A 9  | 0.0  | 0.0     | 0.0     | 0.71    | 1.05    | 1.76    | 8.85    | 7.69    | 27.27   |
| E 39 | 0.0  | 0.0     | 4.05    | 9.29    | 19.47   | 20.59   | 25.66   | 34.62   | 0.0     |
| A 10 | 0.0  | 0.0     | 1.35    | 0.0     | 0.0     | 1.18    | 7.08    | 95      | 36.36   |
| B 31 | 0.0  | 0.0     | 0.0     | 7.86    | 14.21   | 16.47   | 44.25   | 72      | 43.64   |
| A 11 | 0.0  | 0.0     | 4.29    | 12.11   | 41.76   | 64.60   | 92.31   | 90.91   | 90.91   |
| P 23 | 0.0  | 0.0     | 36.49   | 40.00   | 42.63   | 44.71   | 53.98   | 65.38   | 81.82   |

AF2

| COMPARISON OF GROUPS BY INDIVIDUAL TASK                                        |         |         |         |         |         |         |         |         |  |
|--------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| Attachment AF3                                                                 |         |         |         |         |         |         |         |         |  |
| AGALL771 56605012 PAGE                                                         |         |         |         |         |         |         |         |         |  |
| TASK SUMMARY OF PERCENT OF MEMBERS PERFORMING EACH TASK (Alphabetically Order) |         |         |         |         |         |         |         |         |  |
| AVERAGE PERCENT MEMBER IS INCLUDED IN THE FOLLOWING GROUPS                     |         |         |         |         |         |         |         |         |  |
| AGSPCE2 THRU AGSPCE9                                                           |         |         |         |         |         |         |         |         |  |
| SEVENTH DIGIT SPECIFICS THE PAYGRADE OF THE GROUP                              |         |         |         |         |         |         |         |         |  |
| THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:                              |         |         |         |         |         |         |         |         |  |
| AGSPCE2 PEOPLE IN PAYGRADE E-2                                                 |         |         |         |         |         |         |         |         |  |
| AGSPCE3 PEOPLE IN PAYGRADE E-3                                                 |         |         |         |         |         |         |         |         |  |
| AGSPCE4 PEOPLE IN PAYGRADE E-4                                                 |         |         |         |         |         |         |         |         |  |
| AGSPCE5 PEOPLE IN PAYGRADE E-5                                                 |         |         |         |         |         |         |         |         |  |
| AGSPCE6 PEOPLE IN PAYGRADE E-6                                                 |         |         |         |         |         |         |         |         |  |
| AGSPCE7 PEOPLE IN PAYGRADE E-7                                                 |         |         |         |         |         |         |         |         |  |
| AGSPCE8 PEOPLE IN PAYGRADE E-8                                                 |         |         |         |         |         |         |         |         |  |
| AGSPCE9 PEOPLE IN PAYGRADE E-9                                                 |         |         |         |         |         |         |         |         |  |
| MEMBERS= 3.                                                                    |         |         |         |         |         |         |         |         |  |
| MEMBERS= 74.                                                                   |         |         |         |         |         |         |         |         |  |
| MEMBERS= 140.                                                                  |         |         |         |         |         |         |         |         |  |
| MEMBERS= 190.                                                                  |         |         |         |         |         |         |         |         |  |
| MEMBERS= 170.                                                                  |         |         |         |         |         |         |         |         |  |
| MEMBERS= 113.                                                                  |         |         |         |         |         |         |         |         |  |
| MEMBERS= 26.                                                                   |         |         |         |         |         |         |         |         |  |
| MEMBERS= 11.                                                                   |         |         |         |         |         |         |         |         |  |
| DIV/                                                                           |         |         |         |         |         |         |         |         |  |
| TASK                                                                           | AGSPCE2 | AGSPCE3 | AGSPCE4 | AGSPCE5 | AGSPCE6 | AGSPCE7 | AGSPCE8 | AGSPCE9 |  |
| A 1                                                                            | 0.0     | 6.76    | 2.86    | 4.21    | 7.06    | 3.54    | 7.69    | 2.0     |  |
| A 2                                                                            | 0.0     | 2.70    | 2.86    | 4.74    | 8.82    | 15.23   | 11.54   | 0.0     |  |
| A 3                                                                            | 0.0     | 1.35    | 2.14    | 4.74    | 11.76   | 14.16   | 7.69    | 0.0     |  |
| A 4                                                                            | 0.0     | 1.35    | 0.71    | 1.58    | 0.59    | 0.0     | 0.0     | 0.0     |  |
| A 5                                                                            | 0.0     | 2.70    | 2.86    | 9.47    | 5.88    | 2.65    | 7.69    | 0.0     |  |
| A 6                                                                            | 0.0     | 0.0     | 2.86    | 7.37    | 4.12    | 0.83    | 3.05    | 0.0     |  |
| A 7                                                                            | 0.0     | 0.0     | 0.0     | 1.05    | 4.71    | 9.73    | 11.54   | 27.27   |  |
| A 8                                                                            | 0.0     | 0.0     | 1.43    | 1.05    | 2.35    | 9.73    | 0.0     | 14.18   |  |
| A 9                                                                            | 0.0     | 0.0     | 0.71    | 1.05    | 1.76    | 8.85    | 7.69    | 27.27   |  |
| A 10                                                                           | 0.0     | 1.35    | 0.0     | 0.0     | 1.14    | 7.08    | 3.35    | 33.36   |  |
| A 11                                                                           | 0.0     | 0.0     | 4.29    | 12.11   | 41.76   | 64.60   | 92.31   | 90.91   |  |
| A 12                                                                           | 0.0     | 1.35    | 1.43    | 5.79    | 15.88   | 34.51   | 38.44   | 27.27   |  |
| A 13                                                                           | 0.0     | 0.0     | 1.43    | 1.05    | 13.53   | 44.25   | 57.69   | 72.73   |  |
| A 14                                                                           | 0.0     | 0.0     | 4.29    | 5.26    | 20.59   | 59.44   | 80.77   | 72.73   |  |
| A 15                                                                           | 0.0     | 0.7     | 0.0     | 0.53    | 0.59    | 6.19    | 15.38   | 18.18   |  |
| A 16                                                                           | 0.0     | 1.35    | 0.71    | 4.74    | 7.65    | 30.09   | 50.00   | 72.73   |  |
| A 17                                                                           | 0.0     | 0.0     | 0.71    | 7.37    | 11.18   | 23.89   | 34.82   | 63.64   |  |
| A 18                                                                           | 0.0     | 1.35    | 1.43    | 1.58    | 5.88    | 32.74   | 46.15   | 54.55   |  |
| A 19                                                                           | 0.0     | 0.0     | 0.71    | 1.58    | 1.76    | 5.31    | 11.54   | 0.0     |  |
| A 20                                                                           | 0.0     | 0.0     | 0.71    | 1.58    | 4.71    | 30.09   | 53.85   | 81.82   |  |
| A 21                                                                           | 0.0     | 0.0     | 2.14    | 1.53    | 1.18    | 6.19    | 3.85    | 18.18   |  |
| A 22                                                                           | 0.0     | 0.0     | 1.43    | 4.21    | 7.65    | 23.32   | 30.77   | 36.36   |  |
| A 23                                                                           | 0.0     | 0.0     | 0.71    | 3.68    | 3.53    | 28.32   | 26.92   | 18.18   |  |
| A 24                                                                           | 0.0     | 2.70    | 3.57    | 9.47    | 17.65   | 37.17   | 60.23   | 63.64   |  |
| A 25                                                                           | 0.0     | 0.0     | 2.14    | 1.58    | 5.88    | 2.12    | 38.46   | 54.55   |  |

## Attachment Af4

GROUP SUM OF E2 THRU E9

AG411771

04F5U01 FILE

DAILY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.  
A GROUP SUM OF AGS BY PAY GRADE IN EACH TASK

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

AGSPCE3 MEMBERS= 74.  
AGSPCE4 MEMBERS= 140.  
AGSPCE5 MEMBERS= 170.  
AGSPCE6 MEMBERS= 170.  
AGSPCE7 MEMBERS= 113.  
AGSPCE8 MEMBERS= 26.  
AGSPCE9 MEMBERS= 11.  
AGWAVEA MEMBERS= 20.  
AGTOTPP MEMBERS= 707.

| DAY/TASK | AGSPCE3 | AGSPCE4 | AGSPCE5 | AGSPCE6 | AGSPCE7 | AGSPCE8 | AGSPCE9 | AGWAVEA | AGTOTPP |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A        | 13.78   | 12.16   | 10.49   | 8.31    | 6.93    | 4.06    | 0.11    | 15.25   | 9.60    |
| L        | 13.25   | 12.89   | 10.43   | 6.37    | 3.40    | 2.64    | 0.21    | 10.80   | 9.66    |
| L        | 1.59    | 1.82    | 2.61    | 3.87    | 3.86    | 1.74    | 0.12    | 2.22    | 2.80    |
| E        | 15.70   | 20.36   | 15.86   | 20.09   | 23.84   | 27.04   | 37.91   | 20.05   | 20.74   |
| Q        | 4.13    | 4.37    | 5.87    | 12.03   | 12.67   | 8.12    | 0.0     | 7.51    | 7.91    |
| C        | 3.59    | 2.66    | 2.57    | 3.01    | 2.76    | 2.79    | 2.85    | 2.18    | 2.75    |
| K        | 7.41    | 7.65    | 7.34    | 3.22    | 1.43    | 0.78    | 0.32    | 4.52    | 5.35    |
| J        | 0.64    | 0.73    | 0.64    | 0.60    | 0.39    | 0.28    | 0.0     | 0.39    | 0.59    |
| R        | 2.91    | 3.24    | 4.60    | 8.24    | 10.07   | 14.33   | 18.59   | 5.70    | 5.43    |
| G        | 0.14    | 0.19    | 0.08    | 0.19    | 0.09    | 0.04    | 0.16    | 0.0     | 0.14    |
| V        | 3.01    | 3.70    | 7.50    | 3.20    | 1.05    | 1.25    | 0.05    | 1.25    | 3.91    |
| P        | 11.22   | 10.54   | 7.62    | 4.48    | 3.40    | 3.69    | 6.27    | 7.51    | 7.07    |
| A        | 0.77    | 0.56    | 1.45    | 2.30    | 5.74    | 10.76   | 17.84   | 0.32    | 2.66    |
| D        | 1.76    | 1.68    | 2.69    | 8.20    | 9.03    | 8.57    | 4.33    | 3.46    | 4.97    |
| S        | 11.23   | 6.12    | 6.77    | 3.82    | 2.58    | 1.83    | 0.0     | 6.66    | 6.05    |
| H        | 2.44    | 2.44    | 1.93    | 1.57    | 1.45    | 1.63    | 1.18    | 1.31    | 1.91    |
| F        | 3.60    | 2.31    | 2.80    | 1.77    | 2.58    | 2.62    | 3.25    | 2.36    | 2.55    |
| T        | 1.34    | 1.31    | 2.53    | 5.89    | 6.22    | 4.59    | 0.07    | 3.88    | 3.56    |
| O        | 3.88    | 2.15    | 1.77    | 1.79    | 2.21    | 3.00    | 6.34    | 4.44    | 2.19    |

Attachment Af4

## Attachment AFS

GROUP SUM OF E2 THRU E9

AGALL771 GRPSUM01

DAILY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.  
A GROUP SUM OF AGS BY PAY GRADE IN EACH TASK

PAGE

| DIV  | AGSPCE3 | AGSPCE4 | AGSPCE5 | AGSPCE6 | AGSPCE7 | AGSPCE8 | AGSPCE9 | AGWAVEA | AGTOTPP |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| P 22 | 0.01    | 0.02    | 0.00    | 0.04    | 0.01    | 0.03    | 0.38    | 0.0     | 0.02    |
| V 20 | 0.01    | 0.06    | 0.23    | 0.08    | 0.03    | 0.0     | 0.0     | 0.0     | 0.10    |
| P 23 | 0.01    | 0.05    | 0.03    | 0.04    | 0.04    | 0.05    | 0.29    | 0.0     | 0.04    |
| V 21 | 0.0     | 0.03    | 0.16    | 0.07    | 0.04    | 0.06    | 0.0     | 0.0     | 0.08    |
| B 24 | 0.01    | 0.14    | 0.12    | 0.33    | 0.19    | 0.73    | 0.55    | 0.03    | 0.24    |
| M 22 | 0.0     | 0.00    | 0.16    | 0.06    | 0.03    | 0.06    | 0.0     | 0.0     | 0.07    |
| A 25 | 0.01    | 0.03    | 0.05    | 0.06    | 0.10    | 0.08    | 0.35    | 0.04    | 0.06    |
| A 6  | 0.0     | 0.06    | 0.21    | 0.09    | 0.02    | 0.06    | 0.0     | 0.0     | 0.10    |
| A 26 | 0.0     | 0.00    | 0.0     | 0.01    | 0.04    | 0.20    | 0.82    | 0.0     | 0.03    |
| V 23 | 0.0     | 0.0     | 0.09    | 0.04    | 0.01    | 0.06    | 0.0     | 0.0     | 0.04    |
| C 9  | 0.01    | 0.02    | 0.19    | 0.05    | 0.14    | 0.20    | 0.36    | 0.0     | 0.11    |
| V 24 | 0.0     | 0.05    | 0.07    | 0.05    | 0.03    | 0.06    | 0.0     | 0.0     | 0.05    |
| E 27 | 0.1     | 0.08    | 0.22    | 0.05    | 0.13    | 0.15    | 0.52    | 0.0     | 0.12    |
| V 25 | 0.04    | 0.14    | 0.32    | 0.11    | 0.05    | 0.0     | 0.0     | 0.0     | 0.15    |
| F 28 | 0.21    | 0.22    | 0.22    | 0.20    | 0.34    | 0.54    | 1.23    | 0.31    | 0.26    |
| A 7  | 0.0     | 0.0     | 0.01    | 0.04    | 0.13    | 0.23    | 0.56    | 0.0     | 0.05    |
| F 37 | 0.0     | 0.00    | 0.05    | 0.03    | 0.04    | 0.14    | 0.22    | 0.0     | 0.04    |
| F 29 | 0.0     | 0.02    | 0.03    | 0.17    | 0.18    | 0.12    | 1.67    | 0.0     | 0.11    |
| F 39 | 0.02    | 0.24    | 0.26    | 0.43    | 1.42    | 1.40    | 2.86    | 0.13    | 0.54    |
| F 30 | 0.0     | 0.11    | 0.11    | 0.29    | 0.90    | 0.69    | 1.24    | 0.0     | 0.31    |
| A 15 | 0.0     | 0.0     | 0.00    | 0.01    | 0.07    | 0.10    | 1.24    | 0.0     | 0.02    |
| E 31 | 0.01    | 0.08    | 0.06    | 0.14    | 0.35    | 1.05    | 1.69    | 0.0     | 0.19    |
| A 16 | 0.01    | 0.00    | 0.05    | 0.06    | 0.26    | 0.58    | 2.08    | 0.03    | 0.12    |
| F 32 | 0.01    | 0.07    | 0.19    | 0.66    | 1.09    | 1.14    | 0.75    | 0.12    | 0.45    |
| A 17 | 0.0     | 0.01    | 0.15    | 0.12    | 0.26    | 1.07    | 1.37    | 0.09    | 0.17    |
| F 33 | 0.02    | 0.12    | 0.13    | 0.45    | 0.50    | 1.01    | 0.51    | 0.05    | 0.29    |
| B 30 | 0.04    | 0.04    | 0.11    | 0.28    | 0.40    | 1.06    | 1.53    | 0.01    | 0.23    |
| A 8  | 0.0     | 0.01    | 0.01    | 0.01    | 0.08    | 0.0     | 0.33    | 0.0     | 0.03    |
| A 18 | 0.0     | 0.02    | 0.02    | 0.05    | 0.36    | 0.66    | 1.05    | 0.0     | 0.12    |
| A 9  | 0.0     | 0.00    | 0.01    | 0.00    | 0.07    | 0.05    | 0.43    | 0.0     | 0.02    |
| F 39 | 0.05    | 0.13    | 0.26    | 0.23    | 0.17    | 0.47    | 0.0     | 0.0     | 0.20    |
| A 10 | 0.01    | 0.0     | 0.0     | 0.02    | 0.06    | 0.02    | 0.48    | 0.06    | 0.02    |
| B 11 | 0.0     | 0.12    | 0.17    | 0.30    | 0.39    | 1.35    | 1.35    | 0.06    | 0.27    |
| A 11 | 0.0     | 0.05    | 0.10    | 0.46    | 0.92    | 1.70    | 2.04    | 0.10    | 0.39    |
| P 23 | 0.62    | 0.74    | 0.61    | 0.48    | 0.52    | 0.83    | 2.13    | 0.70    | 0.62    |

GROUP SIM OF E2 THRU E9

Attachment AF6

ACALL771

**TASK SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK. (Alpha-Numeric Order)**  
A GROUP SUM UP ASS BY PAY GRADE IN EACH TASK

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

MEMBERS= 74.  
MEMBERS= 140.  
MEMBERS= 190.  
MEMBERS= 170.  
MEMBERS= 113.  
MEMBERS= 26.  
MEMBERS= 11.  
MEMBERS= 20.  
MEMBERS= 707.

| IDTY/<br>TASK | AGSPCE3 | AGSPCE4 | AGSPCE5 | AGSPCE6 | AGSPCE7 | AGSPCE8 | AGSPCE9 | AGWAVEA | AGTUTPP |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A 1           | 0.04    | 0.03    | 0.06    | 0.08    | 0.04    | 0.10    | 0.0     | 0.0     | 0.06    |
| A 2           | 0.04    | 0.02    | 0.04    | 0.07    | 0.16    | 0.10    | 0.0     | 0.0     | 0.07    |
| A 3           | 0.01    | 0.04    | 0.06    | 0.14    | 0.11    | 0.04    | 0.0     | 0.0     | 0.08    |
| A 4           | 0.02    | 0.01    | 0.02    | 0.00    | 0.0     | 0.0     | 0.0     | 0.0     | 0.01    |
| A 5           | 0.04    | 0.11    | 0.21    | 0.19    | 0.04    | 0.43    | 0.0     | 0.0     | 0.13    |
| A 6           | 0.0     | 0.06    | 0.21    | 0.09    | 0.02    | 0.06    | 0.0     | 0.0     | 0.10    |
| A 7           | 0.0     | 0.0     | 0.01    | 0.04    | 0.13    | 0.23    | 0.56    | 0.0     | 0.05    |
| A 8           | 0.0     | 0.01    | 0.01    | 0.01    | 0.04    | 0.0     | 0.33    | 0.0     | 0.03    |
| A 9           | 0.0     | 0.00    | 0.01    | 0.00    | 0.07    | 0.05    | 0.43    | 0.0     | 0.02    |
| A 10          | 0.01    | 0.0     | 0.0     | 0.02    | 0.06    | 0.02    | 0.44    | 0.0     | 0.02    |
| A 11          | 0.0     | 0.05    | 0.11    | 0.46    | 0.02    | 1.70    | 0.04    | 0.10    | 0.19    |
| A 12          | 0.01    | 0.03    | 0.05    | 0.17    | 0.32    | 0.34    | 0.69    | 0.04    | 0.14    |
| A 13          | 0.0     | 0.01    | 0.01    | 0.19    | 0.51    | 0.88    | 1.46    | 0.04    | 0.19    |
| A 14          | 0.0     | 0.04    | 0.05    | 0.23    | 0.63    | 1.17    | 1.55    | 0.0     | 0.25    |
| A 15          | 0.0     | 0.0     | 0.00    | 0.01    | 0.07    | 0.10    | 0.24    | 0.0     | 0.02    |
| A 16          | 0.01    | 0.00    | 0.00    | 0.06    | 0.26    | 0.58    | 2.04    | 0.03    | 0.12    |
| A 17          | 0.0     | 0.01    | 0.15    | 0.12    | 0.26    | 1.07    | 1.17    | 0.09    | 0.17    |
| A 18          | 0.01    | 0.02    | 0.02    | 0.05    | 0.36    | 0.66    | 1.05    | 0.0     | 0.12    |
| A 19          | 0.0     | 0.01    | 0.04    | 0.06    | 0.09    | 0.19    | 0.0     | 0.0     | 0.05    |
| A 20          | 0.0     | 0.00    | 0.02    | 0.06    | 0.29    | 0.62    | 1.29    | 0.0     | 0.11    |
| A 21          | 0.0     | 0.02    | 0.01    | 0.00    | 0.08    | 0.09    | 0.38    | 0.0     | 0.03    |
| A 22          | 0.0     | 0.01    | 0.04    | 0.04    | 0.30    | 0.40    | 0.63    | 0.0     | 0.10    |
| A 23          | 0.0     | 0.01    | 0.04    | 0.04    | 0.28    | 0.39    | 0.38    | 0.0     | 0.09    |
| A 24          | 0.05    | 0.02    | 0.19    | 0.17    | 0.47    | 1.05    | 1.59    | 0.03    | 0.24    |
| A 25          | 0.0     | 0.02    | 0.05    | 0.05    | 0.19    | 0.46    | 1.34    | 0.0     | 0.10    |

# Attachment Ag1 (E-2)

PAYGRADE E-2 ACALL 771 JOBDEC14 PAGE 1

JOB DESCRIPTIONS OF PAYGRADES E-2 THRU E-9 (Alpha-Numeric Sequence)

DUTY JOB DESCRIPTION CASES= 727 TASKS= 483 DUTIES=19 MEMBERS= 3

PAYGRADE E-2

SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLES:

V008/EQ/ 2/ INCUMBENT PAYGRADE

| ORDERED BY DUTY IDENTIFIERS. |                                                        | DUTY TITLE |                                                        | COUNT OF DUTIES OR TASKS LISTED |                                           | CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS |                                           |
|------------------------------|--------------------------------------------------------|------------|--------------------------------------------------------|---------------------------------|-------------------------------------------|-------------------------------------------------------------|-------------------------------------------|
| DUTY                         | TITLE                                                  | DUTY       | TITLE                                                  | PERCENT OF MEMBERS PERFORMING   | AVERAGE PERCENT TIME SPENT BY ALL MEMBERS | PERCENT OF MEMBERS PERFORMING                               | AVERAGE PERCENT TIME SPENT BY ALL MEMBERS |
| A                            | DIRECTING AND IMPLEMENTING                             | A          | DIRECTING AND IMPLEMENTING                             | 33.33                           | 3.94                                      | 1.31                                                        | 1.31                                      |
| B                            | ORGANIZING, PLANNING AND SCHEDULING                    | B          | ORGANIZING, PLANNING AND SCHEDULING                    | 33.33                           | 5.09                                      | 1.70                                                        | 3.01                                      |
| C                            | INSPECTING AND EVALUATING                              | C          | INSPECTING AND EVALUATING                              | 33.33                           | 1.02                                      | 0.34                                                        | 3.34                                      |
| D                            | TRAINING                                               | D          | TRAINING                                               | 66.66                           | 18.92                                     | 12.62                                                       | 15.96                                     |
| E                            | ADMINISTRATIVE DUTIES                                  | E          | ADMINISTRATIVE DUTIES                                  | 66.66                           | 6.59                                      | 4.39                                                        | 20.35                                     |
| F                            | SUPPLY DUTIES                                          | F          | SUPPLY DUTIES                                          | 66.66                           | 3.46                                      | 2.30                                                        | 22.86                                     |
| G                            | MAINTENANCE SUPPORT/SERVICING                          | G          | MAINTENANCE SUPPORT/SERVICING                          | 100.00                          | 11.84                                     | 11.84                                                       | 34.59                                     |
| H                            | USE/OPERATE MACHINES AND OTHER EQUIPMENT/DEVICES/TOOLS | H          | USE/OPERATE MACHINES AND OTHER EQUIPMENT/DEVICES/TOOLS | 66.66                           | 2.22                                      | 1.48                                                        | 35.98                                     |
| I                            | SECURITY FUNCTIONS                                     | I          | SECURITY FUNCTIONS                                     | 100.00                          | 4.46                                      | 4.46                                                        | 30.43                                     |
| J                            | GENERAL MILITARY DUTIES                                | J          | GENERAL MILITARY DUTIES                                | 100.00                          | 16.22                                     | 16.22                                                       | 56.28                                     |
| K                            | MISCELLANEOUS                                          | K          | MISCELLANEOUS                                          | 100.00                          | 7.46                                      | 7.46                                                        | 64.44                                     |
| L                            | ANALYSTS AND FORECASTING                               | L          | ANALYSTS AND FORECASTING                               | 100.00                          | 23.92                                     | 23.92                                                       | 88.42                                     |
| M                            | CODING AND PLOTTING                                    | M          | CODING AND PLOTTING                                    | 66.66                           | 15.46                                     | 10.30                                                       | 98.72                                     |
| N                            | OBSERVATION                                            | N          | OBSERVATION                                            | 33.33                           | 2.12                                      | 0.70                                                        | 99.43                                     |
| O                            | METEOROLOGY                                            | O          | METEOROLOGY                                            | 33.33                           | 1.31                                      | 0.44                                                        | 99.86                                     |
| P                            | OCEANOGRAPHY AND CLIMATOLOGY                           | P          | OCEANOGRAPHY AND CLIMATOLOGY                           | 33.33                           | 1.31                                      | 0.44                                                        | 99.86                                     |

## Attachment Ag2 (E-2)

PAYGRADE E-2

AGALL 771

JOBDEC14 PAGE

JOB DESCRIPTIONS OF PAYGRADES E-2 THRU E-9 (Alpha-Numeric sequenced)

TASK JOB DESCRIPTION--CASES= 727-----TASKS= 483-----DUTIES=19-----MEMBERS= 3

PAYGRADE E-2

SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLES:

V0087EQ/ 27 TINCUMBENT PAYGRADE

| COUNT OF DUTIES OR TASKS LISTED.....                           |    |                                                          |       |      |      |       |      |       |       |
|----------------------------------------------------------------|----|----------------------------------------------------------|-------|------|------|-------|------|-------|-------|
| -CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.. |    |                                                          |       |      |      |       |      |       |       |
| AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....                 |    |                                                          |       |      |      |       |      |       |       |
| AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING.....          |    |                                                          |       |      |      |       |      |       |       |
| PERCENT OF MEMBERS PERFORMING.....                             |    |                                                          |       |      |      |       |      |       |       |
| ORDERED BY TASK IDENTIFIERS.....                               |    |                                                          |       |      |      |       |      |       |       |
| O-TSK.....                                                     |    |                                                          |       |      |      |       |      |       |       |
| TASK TITLE.....                                                |    |                                                          |       |      |      |       |      |       |       |
| B                                                              | 4  | ORIENT MYSELF PRIOR TO ASSUMING WATCH                    | 33.33 | 3.94 | 1.31 | 1.31  | 1.31 | 1.31  | 1.31  |
| C                                                              | 1  | CHECK FAX PRODUCTS FOR ACCURACY                          | 33.33 | 1.52 | 0.51 | 1.82  | 0.51 | 1.82  | 1.82  |
| C                                                              | 3  | CHECK BAROMETERS FOR ACCURACY                            | 33.33 | 1.52 | 0.51 | 2.33  | 0.51 | 2.33  | 2.33  |
| C                                                              | 4  | CHECK EQUIPMENT GEARS FOR EXCESSIVE WEAR                 | 33.33 | 1.52 | 0.51 | 2.50  | 0.51 | 2.50  | 2.50  |
| C                                                              | 5  | USUALLY INSPECT ALL PARTS OF EQUIPMENT                   | 33.33 | 1.52 | 0.51 | 3.53  | 0.51 | 3.53  | 3.53  |
| D                                                              | 14 | ATTEND TRAINING LECTURES                                 | 33.33 | 1.02 | 0.34 | 3.34  | 0.34 | 3.34  | 3.34  |
| E                                                              | 1  | HANG/POST TELETYPE PAPER                                 | 66.66 | 2.33 | 1.55 | 4.89  | 1.55 | 4.89  | 4.89  |
| E                                                              | 2  | FILE TELETYPE MESSAGES                                   | 66.66 | 2.33 | 1.55 | 6.44  | 1.55 | 6.44  | 6.44  |
| E                                                              | 9  | WILL OUT WATCH RELIEF SHEETS                             | 33.33 | 1.31 | 0.44 | 6.88  | 0.44 | 6.88  | 6.88  |
| E                                                              | 7  | PREPARE PACKAGES FOR MAILING                             | 33.33 | 1.52 | 0.51 | 7.39  | 0.51 | 7.39  | 7.39  |
| E                                                              | 8  | PREPARE CHARTS FOR TRANSMISSION                          | 33.33 | 2.54 | 0.85 | 8.24  | 0.85 | 8.24  | 8.24  |
| E                                                              | 8  | SHANG/POST WEATHER CHARTS                                | 66.66 | 2.33 | 1.55 | 9.79  | 1.55 | 9.79  | 9.79  |
| E                                                              | 8  | TEAR WEATHER CHARTS                                      | 33.33 | 3.94 | 1.31 | 11.10 | 1.31 | 11.10 | 11.10 |
| E                                                              | 8  | TIME STAMP CHARTS                                        | 66.66 | 3.24 | 2.16 | 13.26 | 2.16 | 13.26 | 13.26 |
| E                                                              | 8  | WILL MAPS AND CHARTS                                     | 66.66 | 2.98 | 1.99 | 15.25 | 1.99 | 15.25 | 15.25 |
| E                                                              | 9  | DRAM MAPS ON DITTO MATS                                  | 33.33 | 2.04 | 0.68 | 15.93 | 0.68 | 15.93 | 15.93 |
| F                                                              | 1  | TISTON/BREAK-OUT SUPPLIES                                | 33.33 | 8.50 | 2.83 | 18.76 | 2.83 | 18.76 | 18.76 |
| F                                                              | 1  | PACKAGE MAPS AND CHARTS FOR STORAGE                      | 66.66 | 2.33 | 1.56 | 20.32 | 1.56 | 20.32 | 20.32 |
| K                                                              | 1  | REPLACE TELETYPE TRANSMISSION TAPE                       | 33.33 | 1.02 | 0.34 | 20.65 | 0.34 | 20.65 | 20.65 |
| K                                                              | 5  | USUALLY PHASE FACSIMILE RECORDERS                        | 66.66 | 1.16 | 0.73 | 21.53 | 0.73 | 21.53 | 21.53 |
| K                                                              | 1  | WASH VEHICLES/EQUIPMENT                                  | 33.33 | 1.02 | 0.34 | 21.76 | 0.34 | 21.76 | 21.76 |
| K                                                              | 1  | CHANGE WELIX WIRES                                       | 33.33 | 1.02 | 0.34 | 22.10 | 0.34 | 22.10 | 22.10 |
| K                                                              | 2  | FILL RECORDER INK WELLS                                  | 33.33 | 1.02 | 0.34 | 22.44 | 0.34 | 22.44 | 22.44 |
| K                                                              | 2  | CLEAN INTERNAL/EXTERNAL COMPONENTS OF EQUIPMENT          | 33.33 | 0.50 | 0.17 | 22.62 | 0.17 | 22.62 | 22.62 |
| L                                                              | 1  | REPLACE TELETYPE PAPER                                   | 66.66 | 1.92 | 1.28 | 23.55 | 1.28 | 23.55 | 23.55 |
| L                                                              | 2  | REPLACE TELETYPE PAPER                                   | 33.33 | 2.04 | 0.68 | 24.56 | 0.68 | 24.56 | 24.56 |
| L                                                              | 3  | CLEAR JAMMED PAPER FROM TELETYPE                         | 33.33 | 1.52 | 0.51 | 25.07 | 0.51 | 25.07 | 25.07 |
| L                                                              | 6  | MAKE OPERATIONAL CHECKS ON TELETYPE                      | 33.33 | 0.50 | 0.17 | 25.24 | 0.17 | 25.24 | 25.24 |
| L                                                              | 8  | TRAX SATELLITES                                          | 66.66 | 5.16 | 3.44 | 28.68 | 3.44 | 28.68 | 28.68 |
| L                                                              | 9  | INE FACSIMILE RECEIVERS                                  | 33.33 | 1.52 | 0.51 | 29.19 | 0.51 | 29.19 | 29.19 |
| L                                                              | 1  | REPLACE FAX PAPER                                        | 33.33 | 2.54 | 0.85 | 30.04 | 0.85 | 30.04 | 30.04 |
| L                                                              | 1  | TIME CHECK WEATHER RECORDING CHARTS                      | 66.66 | 2.99 | 1.99 | 32.03 | 1.99 | 32.03 | 32.03 |
| L                                                              | 1  | CHANGE PAPER IN WEATHER RECORDING EQUIPMENT              | 33.33 | 1.02 | 0.34 | 32.36 | 0.34 | 32.36 | 32.36 |
| L                                                              | 1  | ADJUST PEN ARMS ON WEATHER RECORDING EQUIPMENT           | 33.33 | 0.50 | 0.17 | 32.53 | 0.17 | 32.53 | 32.53 |
| L                                                              | 1  | PERFORM OPERATIONAL CHECKS ON TELEPHONOLOGICAL EQUIPMENT | 33.33 | 0.50 | 0.17 | 32.70 | 0.17 | 32.70 | 32.70 |
| L                                                              | 1  | RECORD WEATHER ON AUTOMATIC ANSWERING MACHINE            | 66.66 | 2.58 | 1.72 | 34.42 | 1.72 | 34.42 | 34.42 |
| L                                                              | 1  | RECORD WEATHER ON AUTOMATIC ANSWERING MACHINE            | 33.33 | 0.50 | 0.17 | 34.59 | 0.17 | 34.59 | 34.59 |
| N                                                              | 4  | PREPARE DECRYPTED MATERIAL FOR DESTRUCTION               | 33.33 | 3.94 | 1.31 | 35.90 | 1.31 | 35.90 | 35.90 |
| N                                                              | 8  | TRANSMIT ENCRYPTED WEATHER INFORMATION                   | 33.33 | 3.94 | 1.31 | 35.90 | 1.31 | 35.90 | 35.90 |
| O                                                              | 1  | PARTICIPATE IN PHYSICAL FITNESS PROGRAMS                 | 33.33 | 6.38 | 2.12 | 38.03 | 2.12 | 38.03 | 38.03 |

Ag2(E-2)

(PAYGRADES E-3 THRU E-8 OMITTED)





Ag2 (E-9)

PAYGRADE E-9

AGALL771

JOBDEC14 PAGE

JOB DESCRIPTIONS OF PAYGRADES E-2 THRU E-9

TASK JOB DESCRIPTION CASES= 727-----TASKS= 483-----DUTIES=19-----MEMBERS= 11

PAYGRADE E-9

SELECTED FROM THE FOLLOWING COMPUTED/HISTORY VARIABLES:

V008/E0 97 31 INCUMBENT PAYGRADE

COUNT OF DUTIES OR TASKS LISTED.....

CUMULATIVE SUM OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS..

AVERAGE PERCENT TIME SPENT BY ALL MEMBERS.....

AVERAGE PERCENT TIME SPENT BY MEMBERS PERFORMING.....

PERCENT OF MEMBERS PERFORMING.....

ORDERED BY TASK IDENTIFIERS.

D-TSK

TASK TITLE

Z Z Z Z N

|      |                                                          |       |      |      |       |
|------|----------------------------------------------------------|-------|------|------|-------|
| A 7  | ASSIGN PERSONNEL FOR DEPLOYMENT                          | 27.27 | 2.08 | 0.56 | 0.56  |
| A 8  | PREPARE JOB ORDERS FOR CIVILIAN PAY                      | 18.17 | 1.79 | 0.32 | 0.88  |
| A 9  | CHECK CIVILIAN PAYROLLS FOR ACCURACY                     | 27.27 | 1.56 | 0.42 | 1.31  |
| A 10 | COORDINATE TUITION AID PROGRAM                           | 36.36 | 1.33 | 0.40 | 1.79  |
| A 11 | APPROVE/DISAPPROVE SPECIAL REQUESTS                      | 92.91 | 2.24 | 2.04 | 3.83  |
| A 12 | CONDUCT PHYSICAL FITNESS PROGRAMS                        | 27.27 | 2.53 | 0.69 | 4.52  |
| A 13 | APPROPRIATE PERSONNEL FOR SPECIAL RECOGNITION            | 72.72 | 2.01 | 1.46 | 5.98  |
| A 14 | ASSIGN COLLATERAL DUTIES                                 | 72.72 | 2.14 | 1.56 | 7.53  |
| A 15 | PARTICIPATE ON JOB QUALIFICATION BOARDS                  | 18.18 | 1.30 | 0.24 | 7.77  |
| A 16 | CONDUCT REPORTING BOARD INTERVIEWS                       | 72.72 | 2.86 | 2.08 | 9.32  |
| A 17 | SUPERVISE CIVILIAN PERSONNEL                             | 63.64 | 2.14 | 1.36 | 11.21 |
| A 18 | APPROVE WATCH BILLS                                      | 54.54 | 1.93 | 1.05 | 12.26 |
| A 19 | PREPARE LOCAL DIRECTIVES                                 | 81.82 | 1.58 | 1.29 | 13.56 |
| A 20 | NOTIFY ACTIVITIES OF BUDGET AUTHORIZATIONS               | 18.18 | 2.08 | 0.38 | 13.93 |
| A 21 | CONTROL OPERATING EXPENSES                               | 36.36 | 1.86 | 0.68 | 15.61 |
| A 22 | PREPARE ACCOUNTING BUDGETS                               | 18.18 | 2.08 | 0.38 | 14.98 |
| A 23 | ASSIGN MILITARY DUTIES                                   | 63.64 | 2.50 | 1.59 | 16.57 |
| A 24 | CONDUCT ZONE INSPECTIONS                                 | 54.54 | 2.45 | 1.33 | 17.90 |
| A 25 | CHECK CHARTS FOR COMPLETENESS                            | 9.09  | 0.64 | 0.06 | 17.96 |
| A 26 | SCHEDULE PERSONNEL FOR TRAINING                          | 25.25 | 2.36 | 1.28 | 19.24 |
| A 27 | COORDINATE ASSIGNMENTS WITH DETAILER                     | 63.64 | 2.14 | 1.36 | 20.60 |
| A 28 | PARTICIPATE ON INTERVIEW BOARDS                          | 63.64 | 1.72 | 1.10 | 21.70 |
| A 29 | ATTEND FLIGHT AUDIT BOARD                                | 9.09  | 2.59 | 0.23 | 21.93 |
| A 30 | ATTEND ADVISORY BOARD MEETINGS                           | 81.82 | 2.14 | 1.75 | 23.69 |
| A 31 | ATTEND RECREATION AND WELFARE COMMITTEE MEETINGS         | 63.64 | 2.62 | 1.67 | 26.31 |
| A 32 | ATTEND MINORITY AFFAIRS COMMITTEE MEETINGS               | 18.18 | 2.10 | 0.38 | 25.72 |
| A 33 | ATTEND DISASTER CONTROL MEETINGS                         | 18.18 | 1.62 | 0.29 | 26.02 |
| A 34 | MAINTAIN LIAISON WITH CIVILIAN CONTRACTORS               | 36.36 | 1.52 | 0.55 | 26.57 |
| A 35 | MAINTAIN LIAISON WITH OTHER WEATHER AGENCIES             | 27.27 | 1.27 | 0.34 | 26.91 |
| A 36 | AS LIAISON FOR PROJECT TRANSITION                        | 45.45 | 1.80 | 0.82 | 27.71 |
| A 37 | PREPARE ENLISTED PERFORMANCE EVALUATIONS                 | 72.72 | 2.22 | 1.62 | 29.34 |
| A 38 | MAKE ARRANGEMENTS FOR CEREMONIES/INSPECTIONS             | 81.82 | 3.73 | 3.05 | 32.39 |
| A 39 | MAINTAIN LEAVE SCHEDULES                                 | 54.54 | 1.96 | 1.07 | 33.46 |
| A 40 | PREPARE WATCH BILLS                                      | 72.72 | 2.10 | 1.52 | 34.99 |
| A 41 | INITIAL WORK REQUESTS                                    | 63.64 | 2.12 | 1.35 | 36.34 |
| A 42 | GIVE WEATHER LECTURES AT LOCAL SCHOOLS                   | 9.09  | 1.18 | 0.10 | 36.44 |
| A 43 | PERFORM PRE-OPERATIONAL INSPECTION ON VEHICLES/EQUIPMENT | 18.18 | 1.18 | 0.21 | 36.66 |
| A 44 | VISUALLY INSPECT ALL PARTS OF EQUIPMENT                  | 9.09  | 1.94 | 0.18 | 36.83 |
| A 45 | PREFLIGHT AIRCRAFT METEOROLOGICAL GEAR                   | 9.09  | 0.82 | 0.07 | 36.90 |

AG2(E-9)

## Attachment Ahl

AG EQUIPMENT VARSUM BY PAYGRADE AGALL 771 AGEQUIPP PAGE

## THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT

| GROUP IDENTITY           | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 | CONTAINING              |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|-------------------------|
| GROUP IDENTITY = AG---E3 | 46      | 66      | 88      | 83      | 56      | 13      | 0       | 74 MEMBERS.             |
| GROUP IDENTITY = AG---E4 | 1       | 0       | 1       | 1       | 0       | 0       | 0       | CONTAINING 149 MEMBERS. |
| GROUP IDENTITY = AG---E5 | 0       | 0       | 9       | 6       | 7       | 0       | 0       | CONTAINING 190 MEMBERS. |
| GROUP IDENTITY = AG---E6 | 47*     | 72*     | 98*     | 50*     | 63*     | 3       | 0       | CONTAINING 170 MEMBERS. |
| GROUP IDENTITY = AG---E7 | 27      | 63      | 92      | 80      | 50      | 16*     | 3*      | CONTAINING 113 MEMBERS. |
| GROUP IDENTITY = AG---E8 |         |         |         |         |         | 10      | 11      | CONTAINING 26 MEMBERS.  |
| GROUP IDENTITY = AG---E9 |         |         |         |         |         |         |         | CONTAINING 11 MEMBERS.  |

## VARIABLE DATA ONE: V130 = SENT AUTOMATIC WEATHER STATION GNO 14 SERIES

| ....INTERVAL....    | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 |
|---------------------|---------|---------|---------|---------|---------|---------|---------|
| 1                   | 46      | 66      | 88      | 83      | 56      | 13      | 0       |
| 2                   | 1       | 0       | 1       | 1       | 0       | 0       | 0       |
| 3                   | 0       | 0       | 9       | 6       | 7       | 0       | 0       |
| TOTAL COUNTED ABOVE | 47*     | 72*     | 98*     | 50*     | 63*     | 16*     | 3*      |
| OTHER               | 27      | 63      | 92      | 80      | 50      | 10      | 11      |

A-41

## VARIABLE DATA ONE: V132 = WING MEASURING SET AN/GNO 5

| ....INTERVAL....    | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 |
|---------------------|---------|---------|---------|---------|---------|---------|---------|
| 1                   | 42      | 77      | 103     | 92      | 69      | 12      | 0       |
| 2                   | 0       | 0       | 0       | 1       | 0       | 0       | 0       |
| 3                   | 1       | 5       | 10      | 5       | 12      | 4       | 0       |
| TOTAL COUNTED ABOVE | 43*     | 82*     | 113*    | 98*     | 72*     | 16*     | 0*      |
| OTHER               | 31      | 59      | 77      | 72      | 41      | 10      | 11      |

## VARIABLE DATA ONE: V134 = TRANSMISSOMETER AN/GNO 10

| ....INTERVAL....    | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 |
|---------------------|---------|---------|---------|---------|---------|---------|---------|
| 1                   | 33      | 46      | 63      | 51      | 47      | 8       | 0       |
| 2                   | 0       | 0       | 0       | 1       | 0       | 0       | 0       |
| 3                   | 0       | 1       | 5       | 3       | 3       | 3       | 0       |
| TOTAL COUNTED ABOVE | 33*     | 47*     | 68*     | 55*     | 50*     | 11*     | 0*      |
| OTHER               | 41      | 93      | 122     | 115     | 63      | 15      | 11      |

## VARIABLE DATA ONE: V136 = CLOUD HEIGHT SET AN/GNO 13

| ....INTERVAL....    | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 |
|---------------------|---------|---------|---------|---------|---------|---------|---------|
| 1                   | 36      | 55      | 69      | 64      | 51      | 8       | 0       |
| 2                   | 0       | 0       | 0       | 1       | 0       | 0       | 0       |
| 3                   | 0       | 2       | 6       | 2       | 3       | 3       | 0       |
| TOTAL COUNTED ABOVE | 36*     | 57*     | 75      | 67*     | 54*     | 11*     | 0*      |
| OTHER               | 38      | 83      | 115     | 103     | 59      | 15      | 11      |

Attachment Ahl

Ah1

AG EQUIPMENT VARSUM BY PAYGRADE

AGALL771

AGEQUIPP PAGE

| VARIABLE DATA ON: V210 = TYPEWRITER |         |         |         |         |         |         |         |  |  |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|--|--|
| INTERVAL                            | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 |  |  |
| 1                                   | 23      | 112     | 163     | 0       | 137     | 93      | 24      |  |  |
| 2                                   | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| 3                                   | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| TOTAL COUNTED ABOVE                 | 23      | 112     | 163     | 0       | 137     | 93      | 24      |  |  |
| OTHER                               | 10      | 19      | 12      | 101     | 2       | 1       |         |  |  |

| VARIABLE DATA ON: V212 = COPYING MACHINE 3M, XEROX, ETC. |         |         |         |         |         |         |         |  |  |
|----------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|--|--|
| INTERVAL                                                 | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 |  |  |
| 1                                                        | 47      | 97      | 115     | 119     | 8       | 19      | 8       |  |  |
| 2                                                        | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| 3                                                        | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| TOTAL COUNTED ABOVE                                      | 47      | 97      | 115     | 119     | 8       | 19      | 8       |  |  |
| OTHER                                                    | 25      | 21      | 27      | 45      | 27      | 7       | 2       |  |  |

| VARIABLE DATA ON: V214 = ADDING MACHINE |         |         |         |         |         |         |         |  |  |
|-----------------------------------------|---------|---------|---------|---------|---------|---------|---------|--|--|
| INTERVAL                                | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 |  |  |
| 1                                       | 28      | 61      | 85      | 96      | 62      | 17      | 6       |  |  |
| 2                                       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| 3                                       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| TOTAL COUNTED ABOVE                     | 28      | 61      | 85      | 96      | 62      | 17      | 6       |  |  |
| OTHER                                   | 45      | 78      | 103     | 73      | 49      | 9       | 5       |  |  |

| VARIABLE DATA ON: V216 = ELECTROTYPE TELE AUTOGRAPH |         |         |         |         |         |         |         |  |  |
|-----------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|--|--|
| INTERVAL                                            | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 |  |  |
| 1                                                   | 11      | 21      | 16      | 16      | 21      | 3       | 0       |  |  |
| 2                                                   | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| 3                                                   | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| TOTAL COUNTED ABOVE                                 | 11      | 21      | 16      | 16      | 21      | 3       | 0       |  |  |
| OTHER                                               | 1       | 62      | 119     | 154     | 92      | 23      | 10      |  |  |

| VARIABLE DATA ON: V218 = TIME STAMP CLICK |         |         |         |         |         |         |         |  |  |
|-------------------------------------------|---------|---------|---------|---------|---------|---------|---------|--|--|
| INTERVAL                                  | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 |  |  |
| 1                                         | 9       | 13      | 18      | 12      | 0       | 0       | 0       |  |  |
| 2                                         | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| 3                                         | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| TOTAL COUNTED ABOVE                       | 9       | 13      | 18      | 12      | 0       | 0       | 0       |  |  |
| OTHER                                     | 63      | 126     | 171     | 158     | 103     | 26      | 11      |  |  |

| VARIABLE DATA ON: V220 = BURGLAR ALARM |         |         |         |         |         |         |         |  |  |
|----------------------------------------|---------|---------|---------|---------|---------|---------|---------|--|--|
| INTERVAL                               | AG---E3 | AG---E4 | AG---E5 | AG---E6 | AG---E7 | AG---E8 | AG---E9 |  |  |
| 1                                      | 0       | 2       | 7       | 4       | 3       | 1       | 0       |  |  |
| 2                                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| 3                                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       |  |  |
| TOTAL COUNTED ABOVE                    | 0       | 2       | 7       | 4       | 3       | 1       | 0       |  |  |
| OTHER                                  | 74      | 138     | 183     | 166     | 110     | 25      | 11      |  |  |

Ah1

## Attachment Ah2

VARIABLE SUMMARY BY PAYGRADE WORKER CHARACTERISTICS OF THE JOB AGALL71 VARS219 PAGE

## THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT

|                           |            |              |
|---------------------------|------------|--------------|
| GROUP IDENTITY = AGSPCE22 | CONTAINING | 3 MEMBERS.   |
| GROUP IDENTITY = AGSPCE32 | CONTAINING | 74 MEMBERS.  |
| GROUP IDENTITY = AGSPCE42 | CONTAINING | 140 MEMBERS. |
| GROUP IDENTITY = AGSPCE52 | CONTAINING | 190 MEMBERS. |
| GROUP IDENTITY = AGSPCE62 | CONTAINING | 170 MEMBERS. |
| GROUP IDENTITY = AGSPCE72 | CONTAINING | 113 MEMBERS. |
| GROUP IDENTITY = AGSPCE82 | CONTAINING | 26 MEMBERS.  |
| GROUP IDENTITY = AGSPCE92 | CONTAINING | 11 MEMBERS.  |

7274 727

VARIABLE DATA ON: V050 = FINGER, HAND, WRIST, AND FOREARM STRENGTH

| .....INTERVAL.....  | AGSPCE22 | AGSPCE32 | AGSPCE42 | AGSPCE52 | AGSPCE62 | AGSPCE72 | AGSPCE82 | AGSPCE92 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 Below Average     | 0        | 16       | 32       | 39       | 50       | 23       | 5        | 5        |
| 2 Average           | 2        | 42       | 85       | 117      | 93       | 73       | 18       | 3        |
| 3 Above Average     | 0        | 16       | 22       | 31       | 26       | 16       | 3        | 3        |
| TOTAL COUNTED ABOVE | 2*       | 74*      | 139*     | 187*     | 169*     | 112*     | 26*      | 11*      |
| OTHER               | 1        | 0        | 1        | 3        | 1        | 1        | 0        | 0        |

VARIABLE DATA ON: V052 = UPPER ARM STRENGTH

| .....INTERVAL.....  | AGSPCE22 | AGSPCE32 | AGSPCE42 | AGSPCE52 | AGSPCE62 | AGSPCE72 | AGSPCE82 | AGSPCE92 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3                   | 1        | 37       | 57       | 85       | 82       | 52       | 11       | 7        |
| 4                   | 0        | 31       | 74       | 95       | 82       | 55       | 13       | 4        |
| 5                   | 1        | 5        | 8        | 4        | 4        | 4        | 2        | 0        |
| TOTAL COUNTED ABOVE | 2*       | 73*      | 139*     | 188*     | 168*     | 111*     | 26*      | 11*      |
| OTHER               | 1        | 1        | 1        | 2        | 2        | 2        | 0        | 0        |

VARIABLE DATA ON: V056 = LEG, FOOT AND ANKLE STRENGTH

| .....INTERVAL.....  | AGSPCE22 | AGSPCE32 | AGSPCE42 | AGSPCE52 | AGSPCE62 | AGSPCE72 | AGSPCE82 | AGSPCE92 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3                   | 1        | 22       | 52       | 57       | 74       | 36       | 10       | 8        |
| 4                   | 0        | 41       | 67       | 107      | 73       | 59       | 16       | 2        |
| 5                   | 1        | 10       | 20       | 25       | 22       | 16       | 8        | 1        |
| TOTAL COUNTED ABOVE | 2*       | 73*      | 139*     | 189*     | 169*     | 111*     | 26*      | 11*      |
| OTHER               | 1        | 1        | 1        | 1        | 1        | 2        | 1        | 0        |

VARIABLE DATA ON: V058 = RAPID WORK FOR A SERIES OF SHORT PERIODS

| .....INTERVAL.....  | AGSPCE22 | AGSPCE32 | AGSPCE42 | AGSPCE52 | AGSPCE62 | AGSPCE72 | AGSPCE82 | AGSPCE92 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3                   | 0        | 15       | 22       | 27       | 35       | 31       | 1        | 6        |
| 4                   | 3        | 38       | 65       | 83       | 63       | 30       | 10       | 3        |
| 5                   | 0        | 21       | 51       | 78       | 70       | 44       | 9        | 2        |
| TOTAL COUNTED ABOVE | 3*       | 74*      | 138*     | 188*     | 168*     | 111*     | 26*      | 11*      |
| OTHER               | 0        | 0        | 2        | 2        | 2        | 2        | 0        | 0        |

## Attachment Ah2

Ah2

## VARIABLE SUMMARY BY PAYGRADE

AGALL771 VARS2/9 PAGE

## VARIABLE DATA ON: V060 = RAPID WORK FOR EXTENDED PERIODS

| INTERVAL            | AGSPCE22 | AGSPCE32 | AGSPCE42 | AGSPCE52 | AGSPCE62 | AGSPCE72 | AGSPCE82 | AGSPCE92 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3                   | 1        | 39       | 71       | 88       | 80       | 64       | 16       | 10       |
| 4                   | 1        | 25       | 45       | 70       | 69       | 28       | 9        | 1        |
| 5                   | 0        | 10       | 22       | 31       | 18       | 18       | 1        | 0        |
| TOTAL COUNTED ABOVE | 2*       | 74*      | 138*     | 189*     | 167*     | 110*     | 26*      | 11*      |
| OTHER               | 1        | 0        | 2        | 1        | 3        | 1        | 0        | 0        |

## VARIABLE DATA ON: V062 = RAPID WORK FOR INDEFINITE PERIODS

| INTERVAL            | AGSPCE22 | AGSPCE32 | AGSPCE42 | AGSPCE52 | AGSPCE62 | AGSPCE72 | AGSPCE82 | AGSPCE92 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3                   | 1        | 47       | 96       | 112      | 107      | 75       | 14       | 11       |
| 4                   | 0        | 19       | 31       | 50       | 49       | 28       | 9        | 0        |
| 5                   | 0        | 7        | 11       | 25       | 11       | 7        | 2        | 0        |
| 3                   | 1        | 47       | 96       | 112      | 107      | 75       | 14       | 11       |
| 4                   | 1        | 19       | 31       | 50       | 49       | 28       | 9        | 0        |
| 5                   | 0        | 7        | 11       | 25       | 11       | 7        | 2        | 0        |
| TOTAL COUNTED ABOVE | 4*       | 146*     | 276*     | 374*     | 334*     | 220*     | 50*      | 22*      |
| OTHER               | 1        | 72       | 136      | 184      | 164      | 107      | 24       | 11       |

## VARIABLE DATA ON: V064 = HEAVY WORK FOR EXTENDED PERIODS

| INTERVAL            | AGSPCE22 | AGSPCE32 | AGSPCE42 | AGSPCE52 | AGSPCE62 | AGSPCE72 | AGSPCE82 | AGSPCE92 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3                   | 1        | 52       | 115      | 148      | 146      | 99       | 23       | 10       |
| 4                   | 1        | 5        | 18       | 35       | 22       | 10       | 3        | 1        |
| 5                   | 0        | 5        | 4        | 5        | 0        | 2        | 0        | 0        |
| TOTAL COUNTED ABOVE | 2*       | 73*      | 137*     | 188*     | 168*     | 111*     | 26*      | 11*      |
| OTHER               | 1        | 1        | 3        | 2        | 2        | 2        | 0        | 0        |

## VARIABLE DATA ON: V066 = HEAVY WORK FOR A SERIES OF SHORT PERIODS

| INTERVAL            | AGSPCE22 | AGSPCE32 | AGSPCE42 | AGSPCE52 | AGSPCE62 | AGSPCE72 | AGSPCE82 | AGSPCE92 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3                   | 1        | 40       | 85       | 107      | 112      | 83       | 17       | 9        |
| 4                   | 1        | 26       | 45       | 68       | 43       | 23       | 6        | 2        |
| 5                   | 0        | 8        | 8        | 13       | 13       | 5        | 3        | 0        |
| TOTAL COUNTED ABOVE | 2*       | 74*      | 138*     | 188*     | 168*     | 111*     | 26*      | 11*      |
| OTHER               | 1        | 0        | 2        | 2        | 2        | 2        | 0        | 0        |

## VARIABLE DATA ON: V068 = HEAVY WORK FOR INDEFINITE PERIODS

| INTERVAL            | AGSPCE22 | AGSPCE32 | AGSPCE42 | AGSPCE52 | AGSPCE62 | AGSPCE72 | AGSPCE82 | AGSPCE92 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3                   | 1        | 55       | 111      | 152      | 144      | 98       | 22       | 10       |
| 4                   | 1        | 14       | 21       | 27       | 21       | 11       | 3        | 1        |
| 5                   | 0        | 4        | 5        | 8        | 1        | 2        | 1        | 0        |
| TOTAL COUNTED ABOVE | 2*       | 73*      | 137*     | 187*     | 169*     | 111*     | 26*      | 11*      |
| OTHER               | 1        | 1        | 3        | 3        | 4        | 2        | 0        | 0        |

Ah2

Attachment B

(Example of)  
TRAINING PROGRAM DESIGN

(AEROGRAPHER'S MATE, AG)

## TABLE OF CONTENTS

|                                                               | Page |
|---------------------------------------------------------------|------|
| 1. Introduction . . . . .                                     | 1    |
| 2. Basic Concepts . . . . .                                   | 1    |
| Mission of Aerography in the Navy . . . . .                   | 1    |
| Mission of Aerographer's Mate Training Program . . . . .      | 1    |
| Scope (Jobs) of Aerographer's Mate Training Program . . . . . | 1    |
| 3. Content of Training Program . . . . .                      | 3    |

|                                                                                                | <u>Contact<br/>Hours</u> |
|------------------------------------------------------------------------------------------------|--------------------------|
| COURSE I      (P) AEROGRAPHER'S MATE - PREPARATORY<br>(for Group of Ratings) . . . . . ( ) . . | 3                        |
| COURSE II     (A) AEROGRAPHER'S MATE - BASIC TECH-<br>NICAL (Job Entry) . . . . . ( ) . .      | 4                        |
| COURSE III    AEROGRAPHER'S MATE - CORE COURSE. ( ) . .                                        | 4                        |
| COURSE IV     (B) AEROGRAPHER'S MATE - ADVANCED<br>TECHNICAL (Individual/Supervisory) ( ) . .  | 4                        |
| COURSE V      (C) AEROGRAPHER'S MATE - ADVANCED<br>(Particular Job). . . . . ( ) . .           | 4                        |
| COURSE VI     (O) AEROGRAPHER'S MATE - TECHNICAL<br>SPECIALTY . . . . . ( ) . .                | 5                        |
| (On-the-Job Training). . . . .                                                                 | 5                        |

### APPENDIXES

|                                                                                     |   |
|-------------------------------------------------------------------------------------|---|
| A. Summary of Operational Equipment for which AG Training<br>is Conducted . . . . . | 6 |
| B. Summary of References . . . . .                                                  | 7 |



## 1. Introduction

Naval training program design for Aerographer's Mate is used as an example to illustrate the conceptual design of a training program. A graphic presentation of this design is shown in figure 1. The following is a discussion of this design.

Purpose of Training Program Design. The purposes of a separate design of the total training program apart from its elements (a course of study or curricula) are:

- a. to present a conceptual view (framework) of formal (school) training to which the elements of the program (phases, courses, curricula) are interrelated.
- b. to show graphically the relationship of the program elements to the whole training program; and the interrelationships between these elements.
- c. to establish a training sequence of all elements of the programs:
  - (1) which is conducive to effective learning
  - (2) that will distinguish between levels of difficulty (preparatory, basic, advanced, specialized) of training, to enlisted rating requirements.
  - (3) to portray to curricula planners, instructional supervisors, instructors, and learners (students) the whole system of training to which each phase, course, job, duty and task is related.

## 2. Basic Concepts

- a. Mission of Aerography in the Navy  
(Write this here)
- b. Mission of Aerographer's Mate Training Program  
(Write this here)
- c. Scope (jobs) of Aerographer's Mate Training Program:

(List all Aerographer's Mate jobs - categorized according to appropriate course - for which AG training will be conducted and which were selected from the analysis of the NOTAP "Diagrams of Task and Time Similarity Matrixes" (Attachment Abl).)

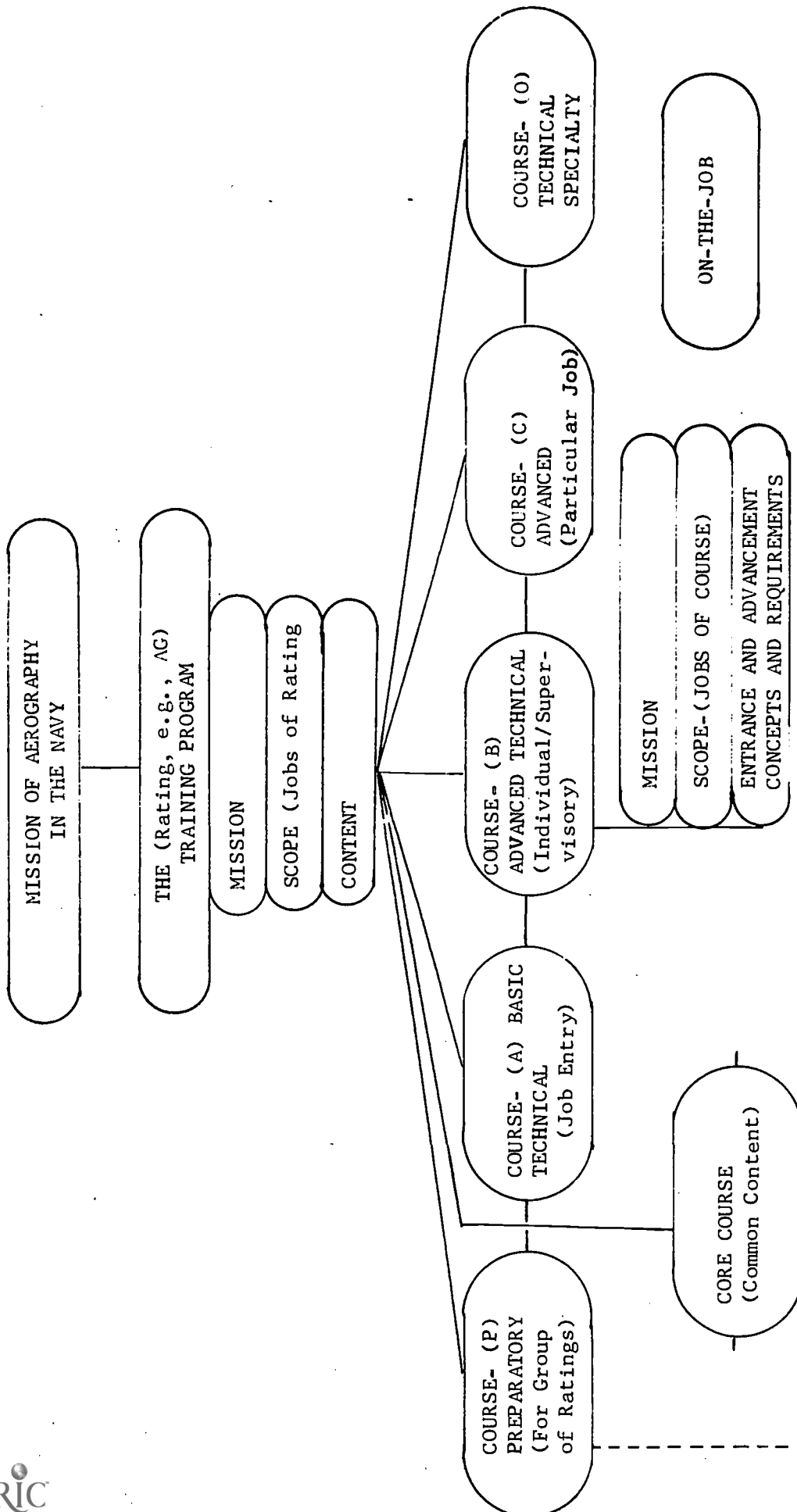


Figure 1. Graphic Design of Training Program.

### 3. Content of Training Program

The content of the training program consists of the conceptual framework in the form of courses/schools required for the rating. The kind and numbers of courses required for a rating will depend on the complexity of jobs and career advancement requirements of the rating. At this stage of training program design, the total course offering should show interrelationships by describing: (a) the mission; (b) scope, and (c) basic concepts for entrance and career advancement requirements for each course. These three factors for each course will then be transferred to the separate curriculum for each course.

The following elements should be included in writing the mission of a course. These elements were extracted from material of a workshop conducted by the Naval Personnel and Training Research Laboratory personnel, San Diego, California of 1972.

Deriving the course mission. "Specifying the mission (the general goal of the course) may require explicit mention of as many as five elements. These are (1) who is to be trained, to do (2) what, (3) to what degree of qualification, (4) where, and under (5) what general conditions. Which of these must be explicitly mentioned depends on the particular duty assignment. The who specifies the course entrant--Seaman, Fire Control Technician Third Class, junior naval officer, etc., from which experience requirements can be inferred, if they are not stated. Aptitude requirements must be explicitly stated. The who guides the criteria for acceptance of students; if those without full qualification are accepted, it guides the distinction between main course and remedial tasks, thus suggesting where the job analysis may stop. The what identifies the job or part of the job for which the training is to be given--CICWO, AAW evaluator, operator of electronic equipment. Hence, it tells where to start the job analysis. Degree of qualification refers to ability to perform specific job tasks at job entrance. Thus it guides the setting of the dividing point between shore and ship training. This in turn effects the length of the course. Where refers to ship type, e.g., all combatant, FRAM II type destroyer, attack carrier (CVA), specific shore locations, thus further specifying the boundaries of the course. Conditions refer to readiness conditions as well as to physical environmental conditions, e.g., extreme temperature which will effect the manner in which the job must be performed. These general conditions apply to all the learning objectives of the course. Each learning objective has its own additional conditions."

#### COURSE I (P) AEROGRAPHER'S MATE - PREPARATORY (for a group of ratings)

Mission: Indicate how this is an element of the mission in par. 2b above; indicate also the training for which it is preparatory.

Scope: List AG jobs of par. 2c above which were designated for preparatory training.

Entrance and Career Advancement Basic Concepts and Requirements:  
(Write concepts, requirements plans here.)

COURSE II (A) AEROGRAPHER'S MATE - BASIC TECHNICAL  
(Job Entry Specialization)

Mission: Indicate how this is an element of the mission par. 2b above.

Scope. List jobs of par. 2c above which were designated for basic training.

Entrance and Career Advancement Basic Concepts and Requirements:  
(Write concepts, requirements, plans here.)

COURSE III. AEROGRAPHER'S MATE - Core Course

Mission: Indicate how this is an element of the mission in par. 2b above.

Scope: List jobs of par. 2c above which were designated as jobs and tasks common (contains tasks which are common) to part or all AG training. The content of a core course is common to two or more courses. That is, it is applicable to two or more courses.

Entrance and Career Advancement Basic Concepts and Requirements:  
(Write concepts, requirements, plans here.)

COURSE IV (B): AEROGRAPHER'S MATE - ADVANCED TECHNICAL  
(Individual/Supervisory)

Mission: Indicate how this is an element of the mission in par. 2b above.

Scope: List jobs of par. 2c above which were designated for advanced technical training for individual or supervisory personnel of the rating.

Entrance and Career Advancement Basic Concepts and Requirements:  
(Write concepts, requirements, plans here.)

COURSE V (C) AEROGRAPHER'S MATE - ADVANCED (Particular Job)

Mission: Indicate how this course is an element of the mission in par. 2b above.

Scope: List particular jobs of par. 2c above which were designated as requiring advanced training.

Entrance and Career Advanced Basic Concepts and Requirements:  
(Write concepts, requirements, plans here.)

## COURSE VI (O) AEROGRAPHER'S MATE TECHNICAL SPECIALTY

Mission: Indicate how this course is an element of the mission in par. 2b above.

Scope: List jobs of par. 2c above which have been designated as technical specialty jobs of the rating.

Entrance and Career Advancement Basic Concepts and Requirements:  
(Write concepts, requirements, plans here.)

### ON-THE-JOB TRAINING

Indicate information that may be passed on to operating commands, concerning such factors as mission, jobs and tasks which were designated for on-the-job training during the analysis of NOTAP printout data.

---

NOTE: The above list of courses are based on classes of schools categorized by CNTECHTRAINST 1540.2 of 13 Sep 1972 as class P, A, B, C and O schools. A rating may require some or all of these levels of training, or other training designated by cognizant commands. Six courses are listed to illustrate levels of training not to indicate that the AG rating requires six courses.

## APPENDIX A

### SUMMARY OF OPERATIONAL EQUIPMENT FOR WHICH AG TRAINING IS CONDUCTED

(This equipment is selected from an analysis of the NOTAP "Equipment VARSUM" (Attachment A1) computer printout data. The selected equipment for which training listed numerically by computer code numbers which identify the equipment in the printouts. As an example:)

Equipment  
VARSUM No.

Equipment

V130          Semi Automatic Weather Station GMQ 14 Series

(Equipment appropriate for each course is then selected from this list and transferred to the appropriate course curriculum to be listed in the "Summary of Operational Equipment by course and Jobs for which Training is conducted".)

## APPENDIX B

### SUMMARY OF REFERENCES

(List alphabetically all references which appear in the reference list for each course. That is, consolidate all references needed for training in the rating.)

| <u>No.</u> | <u>Reference</u> |
|------------|------------------|
| 1.         |                  |

Attachment C

(Example of Format for)  
TASK ANALYSIS (NOTAP) BASED CURRICULUM  
FOR  
COURSE IV, AEROGRAPHER'S MATE - ADVANCED TECHNICAL

(NOTE: The purpose of this format is to show how the identity of valid jobs and tasks, selected by an analysis of NOTAP computer printout data, may be maintained and used in the design and development of training curricula.)



## PREFACE

This publication contains the curriculum specifications for Course IV, Aerographer's Mate - Advanced Technical. The curricula for Course II, Aerographer's Mate - Basic Technical and Course III, Aerographer's Mate - Core Course, are presented in a separate publication.

REVIEWED AND APPROVED \_\_\_\_\_

(Date)

\_\_\_\_\_

## TABLE OF CONTENTS

|                                                                    | Page |
|--------------------------------------------------------------------|------|
| Preface . . . . .                                                  | i    |
| I. INTRODUCTION . . . . .                                          | 1    |
| Mission of the Aerographer's Mate Training/School . . . . .        | 1    |
| Content of Aerographer's Mate Training Program (Courses). . .      | 1    |
| Mission of Course IV Aerographer's Mate - Advanced                 |      |
| Technical . . . . .                                                | 1    |
| Entrance Requirements for Course IV, Advanced Technical . . .      | 2    |
| Career Advancement Concepts and Requirements of Course IV,         |      |
| Advanced Technical . . . . .                                       | 2    |
| II. SCOPE - TASK BASED JOBS (Identified by NOTAP "Diagram of       |      |
| Task and Time Similarity                                           |      |
| Matrixes") . . . . .                                               | 3    |
| Job 1. Administrative Supervisors                                  |      |
| Job 2. Forecasters                                                 |      |
| Job 3. Observers                                                   |      |
| Job 4.                                                             |      |
| etc.                                                               |      |
| III. DUTY TASK ANALYSIS (Determine 2d, 3d, etc. level tasks) . . . | 4    |
| <u>Job 1. Administrative Supervisors</u> . . .                     | 4    |
| <u>Task No.</u>                                                    |      |
| A20 PREPARE LOCAL DIRECTIVES .                                     |      |
| A7 ASSIGN PERSONNEL FOR DEPLOYMENT                                 |      |
| A14 ASSIGN COLLATERAL DUTIES                                       |      |
| A24 ASSIGN MILITARY DUTIES                                         |      |
| A18 APPROVE WATCH BILLS                                            |      |
| A11 APPROVE DISAPPROVE SPECIAL REQUESTS                            |      |
| A13 NOMINATE PERSONNEL FOR SPECIAL RECOGNITION                     |      |
| A16 CONDUCT REPORTING ABOARD INTERVIEWS                            |      |
| A17 SUPERVISE CIVILIAN PERSONNEL                                   |      |
| A22 CONTROL OPERATING EXPENSES                                     |      |
| <u>Job 2. Forecasters</u> . . . . .                                | 5    |
| etc.                                                               |      |

IV. COURSE CONTENT: (Learning objectives for the following:) . . . . 6

| <u>Class</u><br><u>Sequence</u> | <u>Topic</u><br><u>No.</u> | <u>Duty</u><br><u>Task</u> | <u>Title</u>                                  |             |
|---------------------------------|----------------------------|----------------------------|-----------------------------------------------|-------------|
|                                 |                            |                            | <u>Job 1. Administrative Supervisors</u>      | . . . 6     |
| 1                               | (1)                        |                            | <u>Preparation of Local Directives</u>        | . . . . . 6 |
|                                 |                            | A20                        | PREPARE LOCAL DIRECTIVES                      |             |
| 2                               | (2)                        |                            | <u>Administration of Personnel Matters</u>    | . . . 7     |
|                                 |                            | A7                         | ASSIGN PERSONNEL FOR DEPLOYMENT               |             |
|                                 |                            | A14                        | ASSIGN COLLATERAL DUTIES                      |             |
|                                 |                            | A24                        | ASSIGN MILITARY DUTIES                        |             |
|                                 |                            | A18                        | APPROVE WATCH BILL                            |             |
|                                 |                            | A11                        | APPROVE DISAPPROVE SPECIAL REQUESTS           |             |
|                                 |                            | A13                        | NOMINATE PERSONNEL FOR SPECIAL<br>RECOGNITION |             |
| 3                               | (3)                        |                            | <u>Conduct Reporting Aboard Ship.</u>         | . . . . . 7 |
|                                 |                            | A16                        | CONDUCT REPORTING ABOARD INTERVIEWS           |             |
| 4                               | (4)                        |                            | <u>Supervision of Civilian Personnel</u>      | . . . . . 8 |
|                                 |                            | A17                        | SUPERVISE CIVILIAN PERSONNEL                  |             |
| 5                               | (5)                        |                            | <u>Fiscal Procedures.</u>                     | . . . . . 8 |
|                                 |                            | A22                        | CONTROL OPERATING EXPENSES                    |             |
|                                 |                            |                            | <u>Job 2. Forecasters</u>                     | . . . . . 9 |
| 6                               | (6)                        | etc.                       |                                               |             |

APPENDIXES:

|    |                                                                                                 |    |
|----|-------------------------------------------------------------------------------------------------|----|
| A. | Summary of Operational Equipment by Course and Job for which<br>Training is Conducted . . . . . | 10 |
| B. | Summary of References . . . . .                                                                 | 11 |
|    | Addendum to Attachment C - Preparation of Learning Objectives . . . . .                         | 12 |

## I. INTRODUCTION

### Mission of Aerographer's Mate Training/School

### Content of Aerographer's Mate Training Program (Courses)

Course II. Aerographer's Mate - Basic Technical

\*Course IV. Aerographer's Mate - Advanced Technical

etc. (List all courses for the rating.)

### \*Mission of Course IV. Aerographer's Mate - Advanced Technical

To provide selected Aerographer's Mates, Second Class and above with knowledges and skills required to perform the job tasks in the administration and operation of Naval Weather Service Office and for advancement in rating to AG1 and AGC.

Entrance Requirements for Course IV, Advanced Technical

Career Advancement Concepts and Requirements of Course IV, Advanced Technical

Length of Course IV: \_\_\_\_\_ Weeks = \_\_\_\_\_ Hours

Computation: \_\_\_\_\_ weeks x 35 hours per week (based on 50 minute instructional periods with 10 minutes break between periods) = \_\_\_\_\_ hours.

## II. SCOPE (TASK BASED JOBS)

(Identified by NOTAP "Diagram of Task Similarity Matrix"  
and  
"Diagram of Time Similarity Matrix")

| <u>Job No.</u>                                                                                                                                | <u>Contact Hours</u> | <u>Pages</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------|
| 1. Administrative Supervisors                                                                                                                 | _____                | <u>4, 6</u>  |
| 2. Forecasters                                                                                                                                | _____                | <u>5, 9</u>  |
| 3. Observers                                                                                                                                  | _____                | <u>—, —</u>  |
| 4. (List all jobs identified by NOTAP, "Diagram of Task and Time Similarity Matrixes" and selected by analysts as appropriate for Course IV.) |                      |              |

---

NOTE: Other jobs identified are more appropriate for Course II - Basic Technical, and Course VI - Technical Specialty, such as jobs ASWEPS and Rawin/Radiosand.

### III. \*DUTY TASK ANALYSIS

(Job 1. Administrative Supervisor)

(Aterminal  
objective  
A selected  
NOTAP task)

DUTY TASK A20 PREPARE LOCAL DIRECTIVES (A selected NOTAP task)

(Enabling  
objectives)  
derived  
from analy-  
sis of Duty  
Task A20  
above

1.0 Prepares Navy instructions and notices

1.1 Identifies the structural content of Navy  
instructions and notices

1.1.1 Identifies the basic format of Navy  
instructions and notices

DUTY TASKS A7 ASSIGN PERSONNEL FOR DEPLOYMENT (Selected NOTAP  
A14 ASSIGN COLLATERAL DUTIES tasks)  
A24 ASSIGN MILITARY DUTIES  
A18 APPROVE WATCH BILLS  
A11 APPROVE DISAPPROVE SPECIAL REQUESTS  
A13 NOMINATE PERSONNEL FOR SPECIAL RECOGNITION

1.0

etc.

DUTY TASK A16 CONDUCT REPORTING ABOARD INTERVIEWS (A selected  
NOTAP task)

1.0

etc.

DUTY TASK A17 SUPERVISE CIVILIAN PERSONNEL (A selected  
NOTAP task)

1.0

etc.

---

\*NOTE: For details of how to conduct this type of analysis see Rundquist, E. A.  
Job Training Course Design and Improvement, Research Report SRR 71-4  
Sep 1970, Naval Personnel and Training Research Laboratory, San Diego,  
Calif. 92152

DUTY TASK A22 CONTROL OPERATING EXPENSES (A selected NOTAP  
task)

1.0

etc.

(Job 2. Forecasters)

(Continue duty task analysis of all jobs listed in III - SCOPE)



#### IV. COURSE CONTENT

Derived from  
Training  
Course Design

COURSE IV. Aerographer's Mate - Advanced Technical

Copied from  
II Scope  
above

Job Title 1: Administrative Supervisors (10 training hours)

Contact Hours

Derived from  
analysis and  
organization  
of NOTAP  
valid tasks

Topic: (1) Preparation of local directives  
(2) Administration of personnel matters  
(3) Conduct reporting aboard ship  
(4) Supervision of civilian personnel  
(5) Fiscal procedures

|   |
|---|
| 2 |
| 2 |
| 2 |
| 2 |
| 2 |

##### Topic (1) Preparation of Local Directives

A terminal  
objective  
copied from  
III above

DUTY TASK: A20 PREPARE LOCAL DIRECTIVES

Enabling  
objective  
copied from  
III 1.1.1.  
above

##### Skill Task

1.1.1. Identifies standard format of a Naval  
Instruction or Notice

Learning  
Objective →

##### Training Task 1:

Given SECNAVINST 5215.1 (series), Directives  
Issuance System, type on a 8 x 10½ typing  
paper the format of an official notice for  
the local command

(This is what students are required to do.)

Standard: 100% accuracy in content and form.

Learning  
Objective

##### Skill Task

1.1 Identifies structural content of a Naval  
Instruction or Notice.

##### Training Task 2:

Given SECNAVINST 5215.1 (series), Directives  
Issuance System, write appropriate paragraphs  
of a local command notice that promulgates  
information essential to the effective opera-  
tion of the local activity

Standard: 100% accuracy in satisfying the purpose of the  
Notice.

Learning  
Objective

Skill Task

1.0 Prepare official Navy Instruction or Notice

Training

Task 3: Given SECNAVINST 5215.1 (series), Directives Issuance System, prepare a complete Notice typed on 8 x 10½ typing paper that promulgates information essential to the effective operation of the local activity.

Standard: 100% accuracy in format, content, and structure in writing that will clearly transmit the information intended.

Topic (2) Administration of Personnel Matters

DUTY TASKS: A7 ASSIGN PERSONNEL FOR DEPLOYMENT

A14 ASSIGN COLLATERAL DUTIES

A24 ASSIGN MILITARY DUTIES

A18 APPROVE WATCH BILLS

A11 APPROVE DISAPPROVE SPECIAL REQUESTS

A13 NOMINATE PERSONNEL FOR SPECIAL RECOGNITION

Skill Task:

Training

Task 4:

Standard:

Skill Task:

Training

Task:

etc.

Topic (3) Conduct reporting aboard ship

DUTY TASK: A16 CONDUCT REPORTING ABOARD INTERVIEWS

Skill Task:

Training

Task:

Standard:

etc.

Topic (4) Supervision of Civilian Personnel

DUTY TASK: A17 SUPERVISE CIVILIAN PERSONNEL

Skill Task:

Training  
Task -

Standard:

etc.

Topic (5) Fiscal Procedures

DUTY TASK: A22 CONTROL OPERATING EXPENSES

Skill Task:

Training  
Task -

Standard:

etc.

Job Title 2: Forecasters . . . . . (\_\_\_\_\_ contact hours)

Topic: (1)  
(2)  
etc.

Topic (1) \_\_\_\_\_

DUTY TASK:

Skill Task:

Training  
Task -

Standard:

(Thus continue writing learning objectives for all  
aerography jobs listed in II, SCOPE of Course IV.)

## APPENDIX A

### SUMMARY OF OPERATIONAL EQUIPMENT BY COURSE AND JOB FOR WHICH TRAINING IS CONDUCTED

#### COURSE IV.

Job 1 Administrative Supervisors

(None)

Job 2 Forecasters

V154 Aneroid Barometer

V156 Mecurial Barometer

etc.

## APPENDIX B

### SUMMARY OF REFERENCE

#### A. FOR COURSE CONTENT

1. Secretary of the Navy, SECNAVINST 5215.1 (series), Department of the Navy Directives Issuance System, Office of Chief of Naval Operations, Records Management System (OP-09B34), Washington, D. C. 20350

#### B. FOR GENERAL PURPOSE

1. Rundquist, Edward A., Job Training Course Design and Improvement, Research Report SRA 71-4, Naval Personnel and Training Research Laboratory, San Diego, California: 92151, September 1970
2. Naval Air Training Command, Naval Formal Schools Catalog, CNATRA, P1550/1 (Rev. 1-7); Change 2, 1 June 1971, Section IV.
3. etc.

## Addendum to Attachment C

### PREPARATION OF LEARNING OBJECTIVES

Item IV, COURSE CONTENT in Attachment C shows that a learning objective consists of a skill task, a training task, and a standard.

The "Skill Task" is derived from item III, DUTY TASK ANALYSIS, and the "Duty Task" is derived from NOTAP computer printouts.

The "Training Task" is a crucial element which must be developed by the training analysts who are developing the curriculum. The "Training Task" should always state what the student is required to do in order to achieve the skill indicated by the "Skill Task" and in turn to perform the NOTAP "DUTY TASK" to which the skill task is related. If a training task is concerned with a knowledge of, or the attainment of a desired attitude; verbs such as explain, compare, illustrate, describe, define, identify, etc. must be preceded by what the student will do in order to satisfactorily explain, illustrate, describe, etc. The following three examples illustrate how this is achieved in the training task.

Training Task: Study Manual (name the manual) on the M16 rifle and identify its parts and the functions of each part by using an actual rifle. (Knowledge oriented training task)

Training Task: "Examine the eight photographs of poisonous snakes, native to Southeast Asia and identify each snake. (Mental Skill oriented training task)

Training Task: Read NAVPERS 15924 Principles and Problems of Leadership, and explain the importance of two principles of good leadership, citing at least one example from personal experience for each principle. Explanations should include the probable results of a failure to adhere to the principles identified." (Attitude oriented training task)

The following discussion of manual, knowledge, mental, and attitude oriented learning objectives was extracted from MARINE CORPS ORDER P1510.23A:

#### MANUAL SKILL-ORIENTED LEARNING OBJECTIVES

1. General. Learning objectives which require the application of manual procedures are relatively easy to develop, since the associated behavior, conditions, and proficiency can be readily visualized. Manual skill learner such as: "adjust," "rig," "operate," "construct."

2. Preparation. Nearly all manual skill objectives contain all three characteristics of a learning objective. The behavior characteristic

normally describes a manipulative action, and the condition characteristic is aiding, limiting or both. As a rule, manual skill-oriented learning objectives include standards which can be measured by performance tests.

#### KNOWLEDGE/MENTAL SKILL-ORIENTED LEARNING OBJECTIVES

1. General. This type of objective requires the learner to demonstrate proficiency in acquired knowledge, or mental skills.

a. Where the acquisition of knowledge is involved a learning objective which requires the learner to make mental associations and arrive at desired conclusions is preferable to one which measures only memory. The latter should be necessary only when the memorization is required to support a subsequent learning objective or to perform a given task. The two principal types of knowledge objectives are:

(1) Those requiring an understanding of principles or concepts--normally beginning with verbs such as "explain," "compare," "illustrate," or "distinguish."

(2) Those requiring a grasp of established facts--normally beginning with verbs such as "state," "name," "describe," or "define."

b. Learning objectives which require the application of knowledge to make a mental decision can be considered as "mental skill" or objectives. The performance of the mental task normally requires a degree of ease, speed, and accuracy. For example: solving mathematical or scientific problems; reaching management or tactical decisions; interpreting data; completing forms or reports; writing computer programs; or recognizing aircraft or combat vehicle silhouettes.

#### 2. Preparation

a. Knowledge. In developing knowledge-oriented learning objectives, fairly explicit condition statements are normally needed. A proficiency statement, on the other hand, is not normally added since achievement of the objective usually implies 100% accuracy, and time limits are seldom imposed. Examples of knowledge-oriented objectives:

"Identify the parts of the M16 rifle, by name and function, using an actual rifle."

"State the characteristics of the atmosphere, as they affect the transmission of radio signals in the low, medium, high, very high and ultra high frequency bands."

b. Mental Skill. In most mental skill objectives; condition statements are required to pinpoint the area of desired behavior accomplishment and, where appropriate, the kinds of aids learners will be permitted to use. Statements of standards are required, and usually relate to either time or accuracy, or both. Examples:



"Add columns of numbers, each column having 6-10 numbers of 5 digits or less. Time limit: 10 minutes for five problems."

### ATTITUDE-ORIENTED LEARNING OBJECTIVES

1. General. Attitude involves behavior which has emotional overtones, i.e., likes, dislikes, values, beliefs, and viewpoints. Attitudes can be formed or changed in a learning situation, but attainment of a desired attitude is extremely difficult to measure. Oral and written tests may provide the "school solution," but they may not reveal the student's true manner of acting, feeling, or thinking--his true attitude. Attitudes and their related learning objectives can vary through the spectrum from simple awareness of a subject or problem area, through interest, to attitude change, and total indication to the desired attitude or behavior.

#### 2. Preparation

a. Attitude-oriented learning objectives are constructed in much the same manner as knowledge-oriented objectives. The behavior characteristic should relate to activities which reveal attitudes, i.e., complying, following, cooperating. Objectives can begin with such comprehension-revealing verbs as "explain," "describe," "demonstrate (understanding)."

(1) The condition statement normally limits the behavior area for which the trainees will be held responsible. Additionally, the condition characteristic can specify a role-playing situation in which to demonstrate the desired attitudes. As with the knowledge-oriented learning objective, the proficiency characteristic is rarely used.

(2) Some samples of attitude-oriented learning objectives:

"Explain the importance of two principles of good leadership, citing at least one example from personal experience for each principle. Explanations should include the probable results of a failure to adhere to the principles identified."

"Demonstrate an understanding of the Code of Conduct, by explaining why obedience to the Code is mandatory, and by acting the part of a POW interrogated by the instructor in a role-playing exercise."

# DISTRIBUTION LIST

CHNAVMAT  
CHNAVTRASUPP (N-36)  
CHNAVPERS

(Pers-11b)  
(PERS-A)  
(Pers-A3) (10)  
(Pers-A32)

CNA  
CNO

(OP-01B)  
(OP-05)  
(OP-099)  
(OP-100)  
(OP-59) (6)  
(OP-59C)

CNT

(N-35)  
(N-351)  
(N-3511)

CNTECHTRA

(O6)  
(O16)  
(O1622)

..OMOPTEVFOR (Code 226)

NAVPERSTRARSCHLAB (3)

NAVSUBMEDCEN

OASN (M&RA)

ONR (Code 458) (2)

AFHRL (MD) (2)

DDC (12)

ICMR (2)

OPOPMR, T-A

USCG (Code B5)

USMC (Code AO1H)

UNCLASSIFIED

Security Classification

## DOCUMENT CONTROL DATA - R &amp; D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                          |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------|----------------------|
| 1. ORIGINATING ACTIVITY (Corporate author)<br>Naval Personnel Research and Development Laboratory<br>Washington Navy Yard<br>Washington, D. C. 20374                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 2a. REPORT SECURITY CLASSIFICATION<br>UNCLASSIFIED                                       |                      |
| 3. REPORT TITLE<br><br>INTERPRETATION AND TRAINING USES OF COMPUTER PRINTOUT DATA OF NAVY OCCUPATIONAL TASK ANALYSIS PROGRAM (NOTAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 2b. GROUP                                                                                |                      |
| 4. DESCRIPTIVE NOTES (Type of report and inclusive dates)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                          |                      |
| 5. AUTHOR(S) (First name, middle initial, last name)<br><br>James H. Swann                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                          |                      |
| 6. REPORT DATE<br>June 1973                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 7a. TOTAL NO OF PAGES<br>119                                                             | 7b. NO OF REFS<br>11 |
| 8a. CONTRACT OR GRANT NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 9b. ORIGINATOR'S REPORT NUMBER(S)<br><br>WTR 73-34                                       |                      |
| b. PROJECT NO. TDP P43.07X.A1.31W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 10. OTHER REPORT NUMBER(S) (For other numbers that may be assigned this report)          |                      |
| c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | d.                                                                                       |                      |
| 10. DISTRIBUTION STATEMENT<br><br>Approved for public release; distribution unlimited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                          |                      |
| 11. SUPPLEMENTARY NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 12. SPONSORING MILITARY ACTIVITY<br>Bureau of Naval Personnel<br>Washington, D. C. 20370 |                      |
| 13. ABSTRACT<br><br>This investigation is concerned with the interpretation of <u>Navy Occupational Task Analysis Program (NOTAP)</u> computer printout data in terms of its use in the design and development of Navy training programs, courses, and curricula.<br><br>The study interprets NOTAP data and shows how it may be used most effectively in the design and development of training programs to insure that the policy of the Chief of Naval Training is implemented. Namely, "that all Navy training be based upon a thorough and meticulous analysis of the duties and tasks to be performed by the trainee, to the end that all Navy training is job-relevant".<br><br>Examples of a training program design and a format for a job/task analysis based curriculum is presented to illustrate how to specifically use NOTAP data for this purpose.<br><br>Recommendations are made that the procedures presented in the report be field tested and refined as standard procedures for the design and development of Navy training programs based upon NOTAP. |  |                                                                                          |                      |

DD FORM 1473 (PAGE 1)

S/N 0101-807-6801

UNCLASSIFIED  
Security Classification

UNCLASSIFIED

Security Classification

| 14<br>KEY WORDS                                   | LINK A |    | LINK B |    | LINK C |    |
|---------------------------------------------------|--------|----|--------|----|--------|----|
|                                                   | ROLE   | WT | ROLE   | WT | ROLE   | WT |
| Occupational Analysis                             |        |    |        |    |        |    |
| Job Analysis                                      |        |    |        |    |        |    |
| Task Analysis                                     |        |    |        |    |        |    |
| Naval Occupational Task Analysis Program          |        |    |        |    |        |    |
| Training Program Design                           |        |    |        |    |        |    |
| Curricula Design and Development                  |        |    |        |    |        |    |
| Job/Task Based Training Program/Courses/Curricula |        |    |        |    |        |    |